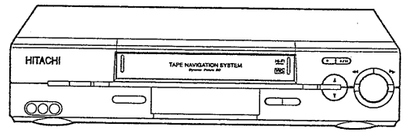
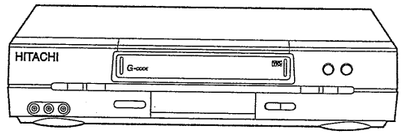
HITACHI

SERVICE MANUAL



VT-UX6570A/AW



VT-UX6530A/AW

TK | No.5016E

VT-UX6570A,AW
VT-UX6530A,AW

US MECHANISM

This service manual does not include information on the U4 Mechanism used in this model. Use this manual together with the following manual.

Manual related to the VT-UX6570A,AW/UX6530A,AW

Name of manual	Manual No.
U4 Mechanism	5009E

VHS

This video deck is a VHS type video recorder. For proper operation, only the VHS type cassette must be used.

VCR Plus+®

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

VIDEO CASSETTE RECORDER

July 2000 Digital Media Products Division, Tokai

SAFETY PRECAUTIONS

NOTICE:
Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

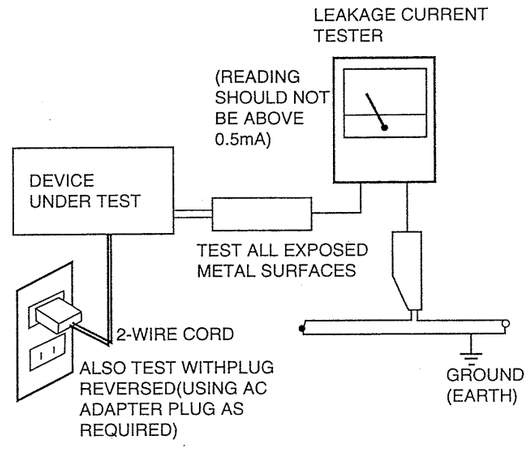
1. When replacing a chassis in the instrument, all the protective devices must be put back in place, such as barriers, non-metallic knobs, adjustment and compartment covers/shields, isolation resistors/ capacitors, etc.
2. When service is required, observe the original lead-ress. Extra precautions should be taken to assure correct lead dress in the high voltage circuit.
3. Always use the manufacturer's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacturer's. Furthermore, where a short-circuit has occurred, replace those components that indicate evidence of overheating.
4. Before returning an instrument to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the instrument by the manufacturer has become defective or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and service technician.

Leakage Current Cold Check

With the AC plug removed from the AC120V, 60Hz (AC110-240V, 50/60Hz) source, place a jumper across the two plug prongs.
Turn the AC power switch on. Using an insulation tester (DC500V), connect one lead to the jumpered AC plug and touch the other lead to exposed metal parts (antennas, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a eturn path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of 0.3 Mohm and a maximum resistor reading of 5 Mohm. Any resistor value below or above this range indicates an abnormality whichrequires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into a AC120V, 60Hz (AC110-240V, 50/60Hz) outlet (do not use an isolation transformer for this check).
Turn the AC power switch on. Using a "Leakage Current Tester", measure for current from all exposed metal parts of the cabinet (antennas, screwheads, metal overlays, control shaft, etc.), particularly an exposed metal part having a return path to the chassis, to a known ground (earth) (water pipe, conduit, etc.). Any current measured must not exceed 0.5 mA.


LEAKAGE CURRENT TESTER
(READING SHOULD NOT BE ABOVE 0.5mA)
DEVICE UNDER TEST
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
ALSO TEST WITHPLUG REVERSED(USING AC ADAPTER PLUG AS REQUIRED)
GROUND (EARTH)

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE UNIT TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts have special safety-related characteristics. These are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for a higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual. Electrical components having such features are identified by marking with a ⚠ on the schematics and the parts list in this Service Manual. The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards. Product safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies for, HITACHI Service Manual may be obtained at a nominal charge from HITACHI SALES CORPORATION.

Notes When Using Service Manual

The following shows the contents to be noted when using service manual:

1. Value units used in parts list

Certain symbols are indicated below for value units of resistors, capacitors and coils in parts list. When you read them note the following regular indications:

Parts	Indication in list	Regular indication
Resistor	KOHM	k Ω
Capacitor	UF	μF
	PF	pF
Coil	UH	μH
	MH	mH

2. Values in schematic diagrams

The values, dielectric strength (power capacitance) and tolerances of the resistors (excluding variable resistors) and capacitors are indicated in the schematic diagrams using abbreviations.

[Resistors]

Item	Indication
Value	No indication ····· Ω K ····· k Ω M ····· M Ω
Tolerance	No indication ····· ±5% (All tolerances other than ±5% are indicated in schematic diagrams)
Power capacitance	No indication ····· 1/8W (1/16W for leadless resistors without indication) All capacitances other than the above are indicated in schematic diagrams.

[Capacitors]

Item	Indication
Value	No indication ····· μF P ····· pF
Dielectric strength	No indication ····· 50V (All dielectric strengths other than 50V are indicated in schematic diagrams)

[Coils]

Item	Indication
Value	μ ····· μH m ····· mH

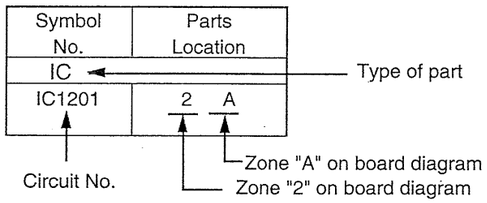
3. Identifications of sides A/B in circuit board diagrams

1) Board having a pattern on one side and parts on both sides.
   Side A: Shows discrete parts, viewed from the pattern side.
   Side B: Shows leadless parts, viewed from the pattern side.
2) Board having patterns on both sides and parts on both sides.
   Side A: Shows parts and patterns which can be seen when the case is opened.
   Side B: Shows parts and the pattern on the back of side A.

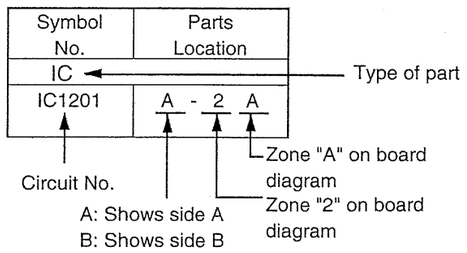
4. Table for indexing locations of parts

This table shows locations of each part on circuit board diagrams. The locations are indicated using the guide scales on the external lines of diagrams.

1) One diagram indicated for each board



2) Two diagrams indicated for each board



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CHAPTER 1 GENERAL INFORMATION

1. Specifications

Format:	VHS
Video Signal System:	NTSC color EIA standard
Record/Playback System:	Video: 4 Heads Audio: VHS Hi-Fi stereo record/playback system
Tape Speed:	33.35mm/s (SP), 16.67mm/s(LP) (playback only), 11.12mm/s (EP)
RF Input:	UHF/VHF75 ohm
Tuner:	USA: 181 channel tuning ability* (125 cable channels) Canada: 178 channel tuning ability* (122 cable channels)
Type:	Auto programming frequency synthesis
Power Input:	AC120V 60Hz [VT-UX6570A/UX6530A] AC110-240V 50/60Hz [VT-UX6570AW/UX6530AW]
Power Consumption:	29W normal 2.0W (Standby mode)
Cabinet Size:	43.0cm(W) x 9.3cm(H) x 27.3cm(D)
Weight:	3.8kg
Storage Temperature:	-20°C to 55°C
Operating Temperature:	5°C to 40°C
Accessories:	1 coaxial cable 1 remote control unit 2AA batteries 1 power plug adapter [VT-UX6570AW/UX6530AW]

* Check your cable company's compatibility requirements.

2. Comparison with Previous Model

Item	VT-UX6570A VT-UX6530A	VT-UX6440A VT-FX6411A/FX6404A VT-FX6402A/FX6400A
Video		
Video recording/playback system	VHS	VHS
Y/C separation	Comb filter (CCD)	Comb filter (CCD)
YNR (noise reduction)	Yes	Yes
CNR (noise reduction)	No	No
New sync circuit	Yes	Yes
S-VHS quasi playback function	Yes	Yes
Jacks		
Video/audio inputs (rear)	1/2	1/2
Video/audio inputs (front)	1/2	1/2 [VT-UX6440A/FX6411A/ FX6404A only]
Video/audio outputs (rear)	1/2	1/2
Synchro input (front)	No	No
Prog.		
VCR Plus + programming	Yes [VT-UX6570A]	Yes
Number of timer programs	8 programs/1 month	8 programs/1 month
Auto recording speed	No	No
Remote control		
Model	VT-RM70A [VT-UX6570A] VT-RM6410A [VT-UX6530A]	VT-RM6411A [VT-UX6440A/FX6411A] VT-RM6404A [VT-FX6404A] VT-RM6402A [VT-FX6402A/FX6400A]
Remote shuttle ring	No	No
VCR Plus + code guide channel memory	Yes [VT-UX6570A]	Yes
Miscellaneous		
Frame Advance playback	Yes	Yes
Slow speed	x1/7	x 1/7
Search speed	SP:x7 to x11 EP:x21 to x33	SP:x7 to x9 EP:x21 to x27
Skip at 60 s	Yes	Yes
Shuttle ring on the VCR	Yes [VT-UX6570A]	Yes [VT-UX6440A/FX6404A]
Cable box control	No	No
DSS box control	No	No
User guide display	Yes	Yes
Auto clock setting	Yes	Yes [VT-UX6440A]
Auto install	Yes	Yes
Tape navigator	Yes [VT-UX6570A]	No
Commercial Advance(CA SKIP)	No	No
Movie Advance(MA SKIP)	No	No
Self-diagnosis	Yes (7 modes)	Yes (7 modes)
No. of channels	181 (USA) 178 (Canada)	181 (USA) 178 (Canada)
Backup time	30 s	30 s
Mechanism		
Basic chassis type	U4	US
Fast forward time(with T-120)	about 90 seconds [Full loading]	about 130 seconds[Full loading]
Rewind time(with T-120)	about 54 seconds [Half loading]	about 83 seconds[Half loading]
Configuration of heads	DA4 heads + Hi-Fi	DA4 heads + Hi-Fi
	SP video: 2 [48/56µm]	SP video: 2 [48/56µm]
	EP video: 2 [19/19µm]	EP video: 2 [19/19µm]
	Audio : 2 [28/28µm]	Audio : 2 [28/28µm]
Material of heads	SP video: Ferrite	SP video: Ferrite
	EP video: Ferrite	EP video: Ferrite
	Audio : Ferrite	Audio : Ferrite
Impedance roller	No	No
Head cleaning roller	No	Yes [VT-UX6440A]

Item	VT-UX6570AW VT-UX6530AW	VT-UX6440AW VT-FX6410AW/FX6400AW VT-MX4420AW/MX2420AW
Video		
Video recording/playback system	VHS	VHS
Y/C separation	Comb filter (CCD)	Comb filter (CCD)
YNR (noise reduction)	Yes	Yes
CNR (noise reduction)	No	No
New sync circuit	Yes	Yes
S-VHS quasi playback function	Yes	Yes [VT-UX6440AW/FX6410AW/ FX6400AW]
Jacks		
Video/audio inputs (rear)	1/2	1/2 [VT-UX6440AW/FX64x0AW] 1/1 [VT-MX4420AW/MX2420AW]
Video/audio inputs (front)	1/2	1/2 [VT-UX6440AW/FX6410AW]
Video/audio outputs (rear)	1/2	1/2 [VT-UX6440AW/FX64x0AW] 1/1 [VT-MX4420AW/MX2420AW]
Synchro input (front)	No [VT-UX6570AW]	No
Prog.		
VCR Plus + programming	Yes	Yes [VT-UX6440AW/FX6410AW]
Number of timer programs	8 programs/1 month	8 programs/1 month
Auto recording speed	No	No
Remote control		
Model	VT-RM70A [VT-UX6570AW] VT-RM6410A [VT-UX6530AW]	VT-RM6411A [VT-FX6440AW/ FX6410AW] VT-RM6402A [VT-FX6400AW/ MX4420AW/MX2420AW]
Remote shuttle ring	No	No
VCR Plus + code guide channel memory	Yes [VT-UX6570AW]	Yes [VT-UX6440AW/FX6410AW]
Miscellaneous		
Frame Advance playback	Yes	Yes [VT-UX6440AW/FX6410AW]
Slow speed	x 1/7	x1/7
Search speed	SP:x7 to x11 EP:x21 to x33	SP:x7 to x9 EP:x21 to x27
Skip at 60 s	Yes	Yes
Shuttle ring on the VCR	Yes [VT-UX6570AW]	Yes [VT-UX6440AW]
Cable box control	No	No
DSS box control	No	No
User guide display	Yes	Yes
Auto clock setting	Yes	Yes [VT-UX6440AW]
Auto install	Yes	Yes
Tape navigator	Yes [VT-UX6570AW]	No
Commercial Advance(CA SKIP)	No	No
Movie Advance(MA SKIP)	No	No
Self-diagnosis	Yes (7 modes)	Yes (7 modes)
No. of channels	181	181 [EXCEPT FOR VT-MX2420AW] 125 [VT-MX2420AW]
Backup time	30 s	30 s
Mechanism		
Basic chassis type	U4	US
Fast forward time(with T-120)	about 90 seconds[Full loading]	about 130 seconds[Full loading]
Rewind time(with T-120)	about 54 seconds[Half loading]	about 83 seconds[Half loading]
Configuration of heads	DA4 heads + Hi-Fi	DA4 heads + Hi-Fi [EXCEPT FOR VT-MX2420AW] DA4 heads [VT-MX2420AW]
	SP video : 2 [48/56µm]	SP video : 2 [48/56µm]
	EP video : 2 [19/19µm]	EP video : 2 [19/19µm]
	Audio : 2 [28/28µm]	Audio : 2 [28/28µm] [EXCEPT FOR VT-MX4420AW]
	----------	2 heads [VT-MX2420AW] CH1, CH2 : 30µm
Material of heads	SP video : Ferrite	SP video : Ferrite
	EP video : Ferrite	EP video : Ferrite
	Audio : Ferrite	Audio : Ferrite
Impedance roller	No	No
Head cleaning roller	No	Yes [VT-UX6440AW only]

3. Comparison of Main Control ICs

Function	VT-UX6570A VT-UX6530A	VT-UX6440A VT-FX6411A/FX6404A VT-FX6402A/FX6400A
Video		
Y/chroma signal processing	JCP8017NVA (IC0201)	JCP8017NVA (IC0201)
CCD 1H delay	Included in IC0201	Included in IC0201
FM signal processing/EQ	Included in IC0201	Included in IC0201
Linear Phase EQ/NAVI.data adder	----------	----------
Video AGC	Included in IC0201	Included in IC0201
FM audio		
Audio signal processing	AN3662FBP (IC0501)	AN3962FBP (IC0501)
Preamp		
Video head switch	Included in IC0201	Included in IC0201
Audio head amp	Included in IC0501	Included in IC0501
MTS/OSD		
MTS decoder	Included in IC0501	Included in IC0501
OSD control/Sync separator/AFC	Included in IC0901	Included in IC0901
Servo		
Servo control	Included in IC0901	Included in IC0901
FG/tach amp	Included in IC0901	Included in IC0901
System control		
Main µP (system control µP)	M37760MFH2E6GP (IC0901)	HD6433977SC33F (IC0901)
EEPROM	AT24C02-10PC [VT-UX6570A] AT24C01A [VT-UX6530A] (IC0903)	S-24C02A (IC0903)
Loading motor drive	BA6209 (IC0904)	BA6209 (IC0904)
Shuttle code	Included in IC0901	Inclued in IC0901
Timer		
Timer µP	Included in IC0901	Included in IC0901
Display driver	LC75833E (IC0701)	BU9716AK (IC1701)
Auto clock setting	Included in IC0901	Z86131 [VT-UX6440A] (IC2901)
Power supply		
Switching driver	STR-G6632 (IC0851)	STR-F6632 (IC0851)
A9V regulator	----------	----------
5V regulator	M5278L05 (IC0905)	M5278L05 (IC0905)
Tape navigation [VT-UX6570A]		
CCD µP (NAVI control)	Included in IC0901	----------
OSD	Included in IC0901	----------
E2P ROM	AT24C64N-10SC (IC0906)	----------

Function	VT-UX6570AW VT-UX6530AW	VT-UX6440AW VT-FX6410AW/FX6400AW VT-MX4420AW/MX2420AW
Video		
Y/chroma signal processing	JCP8017NVA (IC0201)	JCP8017NVA (IC0201)
CCD 1H delay	Included in IC0201	Included in IC0201
FM signal processing/EQ	Included in IC0201	Included in IC0201
Linear Phase EQ/NAVI.data adder	----------	----------
Video AGC	Included in IC0201	Included in IC0201
FM audio		
Audio signal processing	AN3662FBP (IC0501)	AN3662FBP [EXCEPT FOR VT-MX4420AW/MX2420AW] (IC0501)
Preamp		
Video head switch	Included in IC0201	Included in IC0201
Audio head amp	Included in IC0501	Included in IC0501
MTS/OSD		
MTS decoder	Included in IC0501	Included in IC0501
OSD control/Sync separator/AFC	Included in IC0901	Included in IC0901
Servo		
Servo control	Included in IC0901	Included in IC0901
FG/tach amp	Included in IC0901	Included in IC0901
System control		
Main µP (system control µP)	M37760MFH2E6GP (IC0901)	HD6433977SC33F [EXCEPT FOR VT-MX4420AW/MX2420AW] HD6433977SC53F [VT-MX4420AW/MX2420AW] (IC0901)
EEPROM	AT24C02-10PC [VT-UX6570AW] AT24C01A [VT-UX6530AW] (IC0903)	S-24C02A (IC0903)
Loading motor drive	BA6209 (IC0904)	BA6209 (IC0904)
Shuttle code	Included in IC0901	Included in IC0901
Timer		
Timer µP	Included in IC0901	Included in IC0901
Display driver	LC75833E (IC0701)	BU9716AK [EXCEPT FOR VT-FX6400AW] (IC1701)
Auto clock setting	Included in IC0901	Z86131 [VT-UX6440AW] (IC2901)
Power supply		
Switching driver	STR-G6653 (IC0851)	STR-F6632 [EXCEPT FOR VT-MX2420AW] STR-G6651[VT-MX2420AW] (IC0851)
A9V regulator	----------	----------
5V regulator	M5278L05 (IC0905)	M5278L05 (IC0905)
Tape navigation (VT-UX6570AW)		
CCD µP (NAVI control)	Included in IC0901	----------
OSD	Included in IC0901	----------
E2P ROM	AT24C64N-10SC (IC0906)	----------

4. Tips for Servicing

4-1.How to Remove the Cassette when a Malfunction Has Occurred in the Mechanism

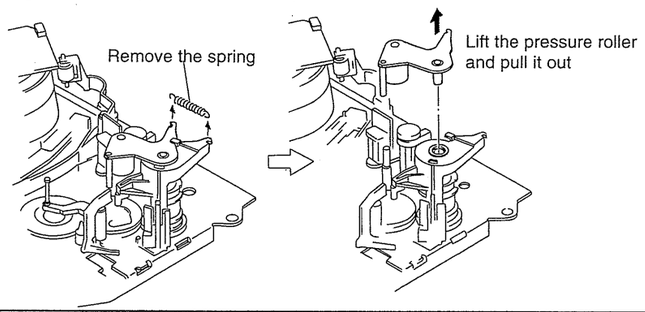
If a cassette is caught in the mechanism because of a malfunction in the mechanism, remove it by the following procedure.

[Work Procedure]
1. Remove the top cover.
2. Remove the front panel.

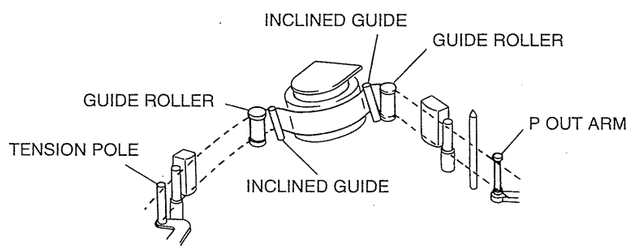
If the tape is wound round the cylinder in the loading state

If the cassette does not come out from the FL mechanism in the unloading state.

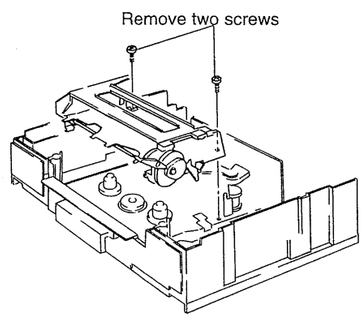
Remove the spring and lift the pressure roller to pull it out.



Slacken the tape and release it from the tension pole, guide rollers, inclined guides and P out arm.



1) Remove two screws holding the FL mechanism.
2) Hold the cassette lid with your fingers so the tape is not damaged and remove the FL mechanism.
3) Remove the slack tape and eject the cassette.



4-2. Trouble Display Function

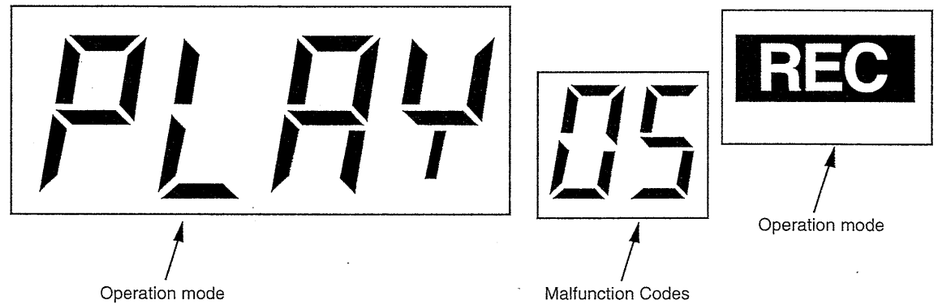
If some trouble in mechanism, etc. occurs, the error number will appear in the VCR display: Use this function to analyze the cause once power is shut off. Two items of information will be displayed: (1) Operation mode when trouble has occurred, and (2) Trouble number.

Trouble display method 1 (first trouble information)
Press the channel ▼ button on the VCR when power is off: The trouble number will appear while the button is held pressed.

Trouble display method 2 (latest trouble information)
Press the REC button on the VCR when power is off: The trouble number will appear while the button is held pressed.

Trouble display clearing method
While holding down the channel ▼button on the VCR, press the microprocessor reset button: The trouble information will be initialized.

LCD DISPLAY



[Display of details of malfunction]

Displayed No.	Item	Details
"00"	No malfunction	
"01"	FL mechanism lock	Malfunction in insertion/ejection of cassette
"02"	Capstan lock unloading	Malfunction of capstan motor drive during tape
"04"	Reel lock	Reel rotation trouble when tape is running
"05"	Cylinder lock	Cylinder rotation malfanction
"L7"	Loading trouble	Malfunction during mechanism modechange (loading)
"U7"	Unloading trouble	Malfunction during mechanism modechange (unloading)
"08"	Fault in cassette compression	Occurs when loading cassette tape

The displayed number flashing indicates trouble during operation made change.

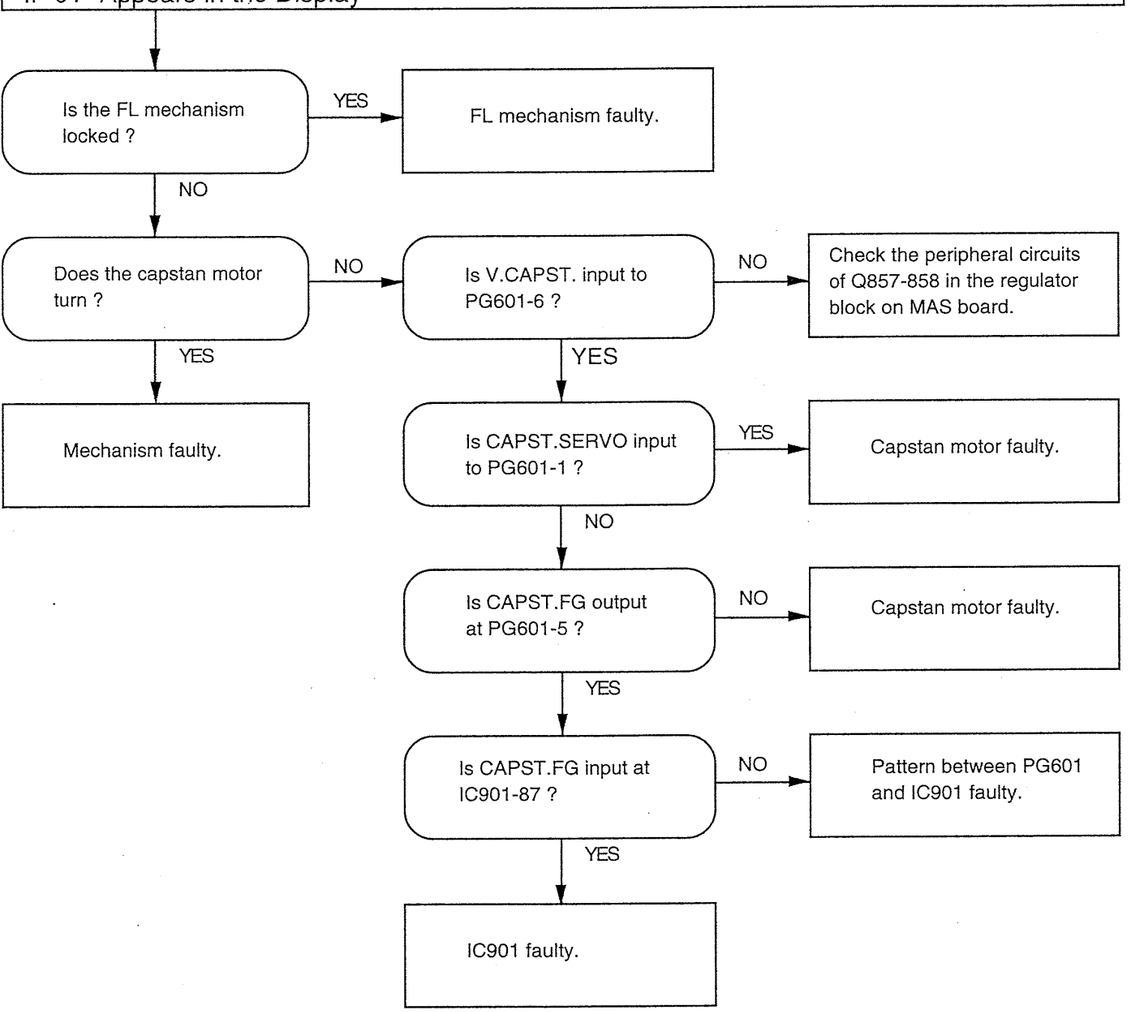
[Mode Display when Malfunction Has Occurred]

Mode	Display	Mode	Display
Stop	No Display	Reverse playback	-PLAY
Fast forward	FF	Forward search	SRCH
Rewind	REW	Reverse search	-SRCH
Recording	REC	Slow motion play	SLOW
Recording pause	REC (flashes)	Reverse motion slow play	-SLOW
Playback	PLAY	Still motion play	STILL

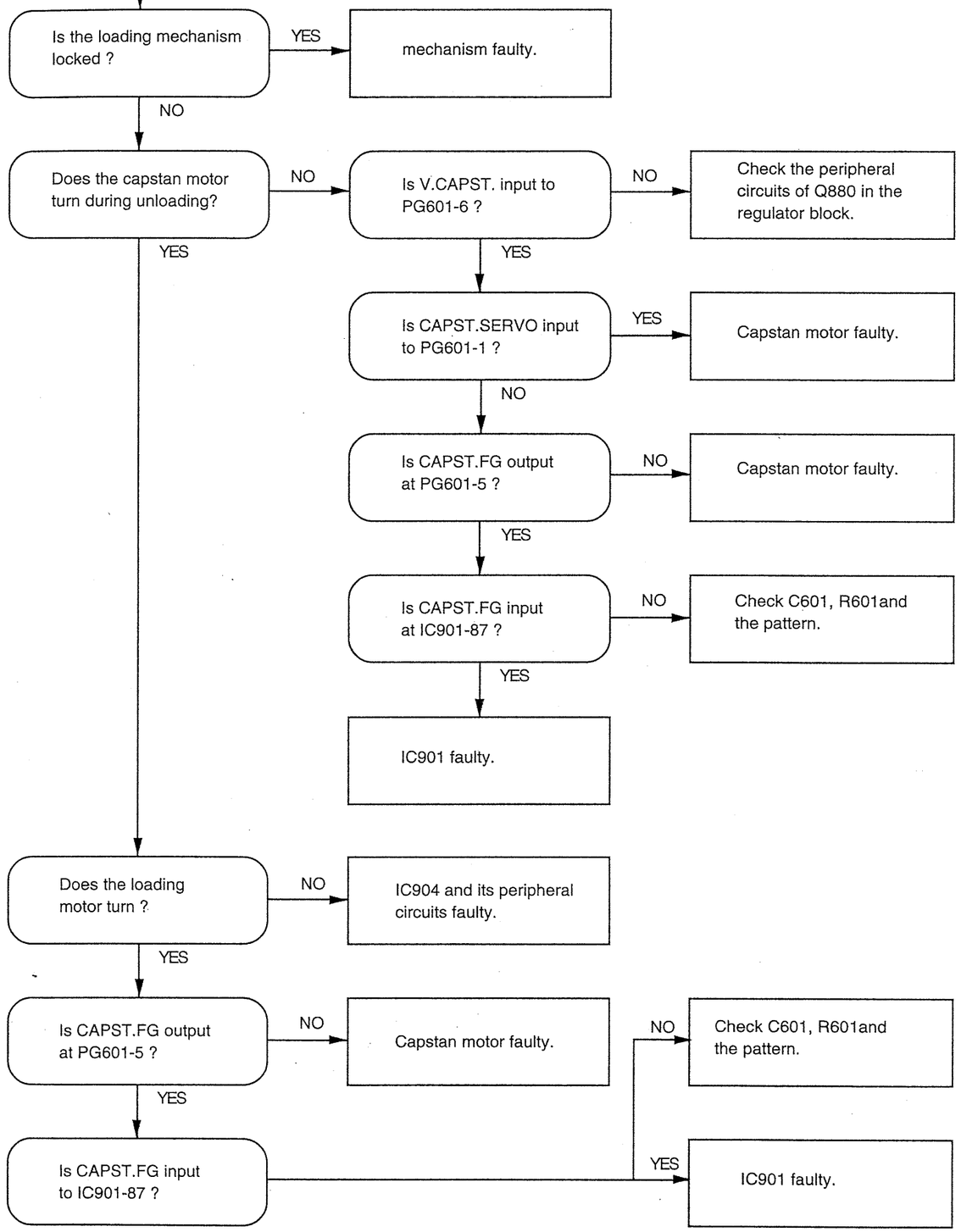
No symbols are displayed if the malfunction occurred when a cassette was inserted or ejected, or the power was switched on from off, and off from on.

Troubleshooting According to Malfunction Display

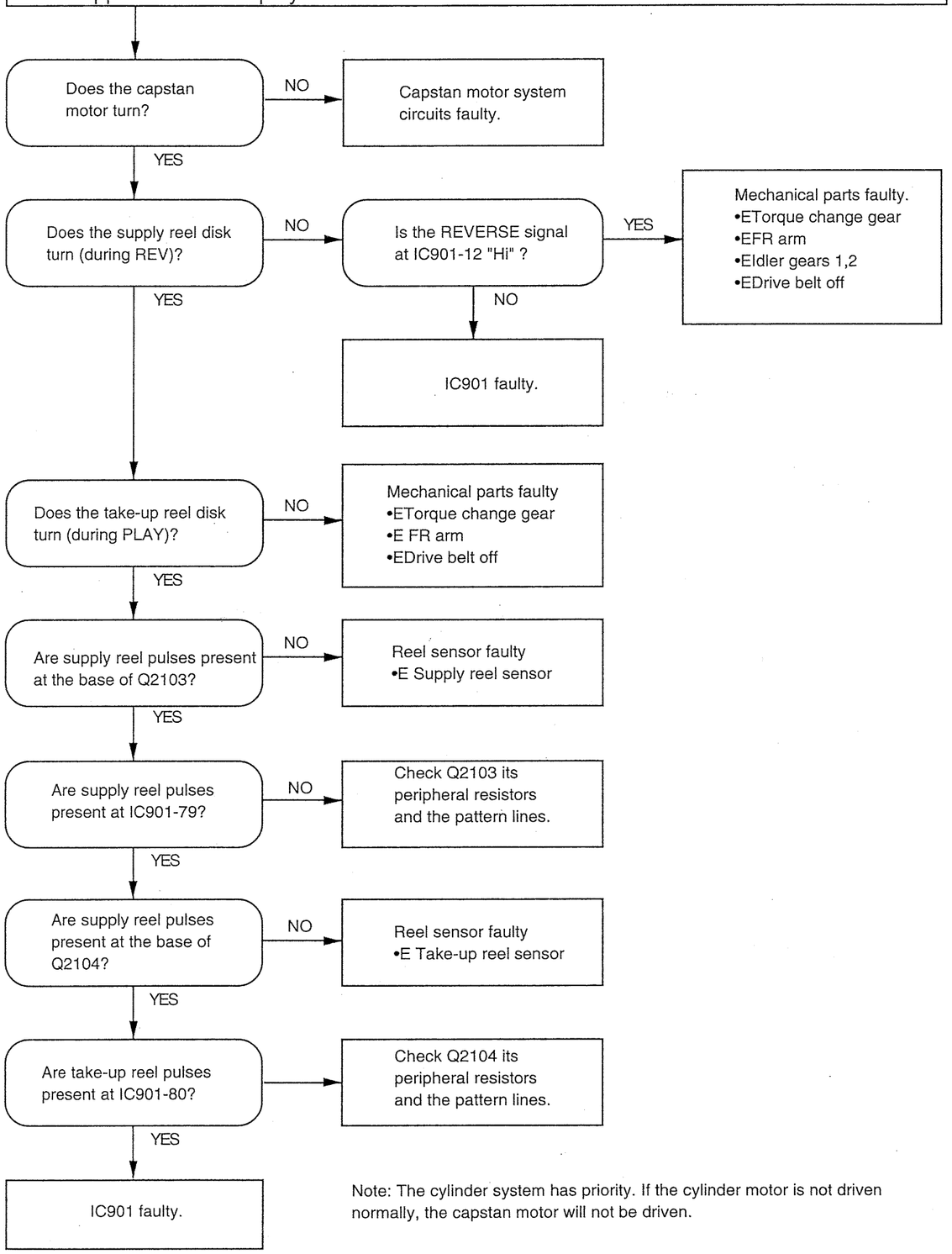
If "01" Appears in the Display



If "02" Appears in the Display

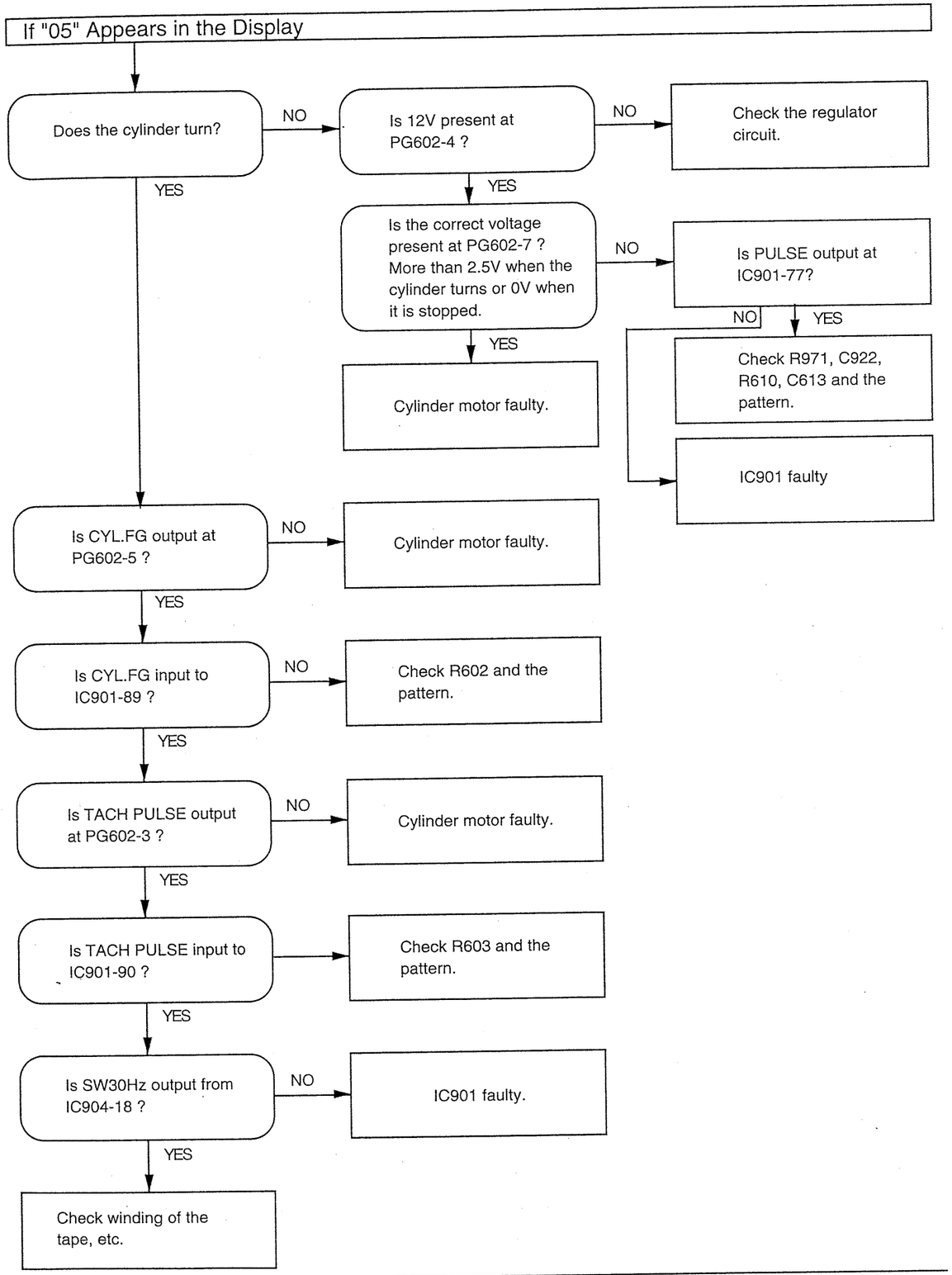


If "04" Appears in the Display

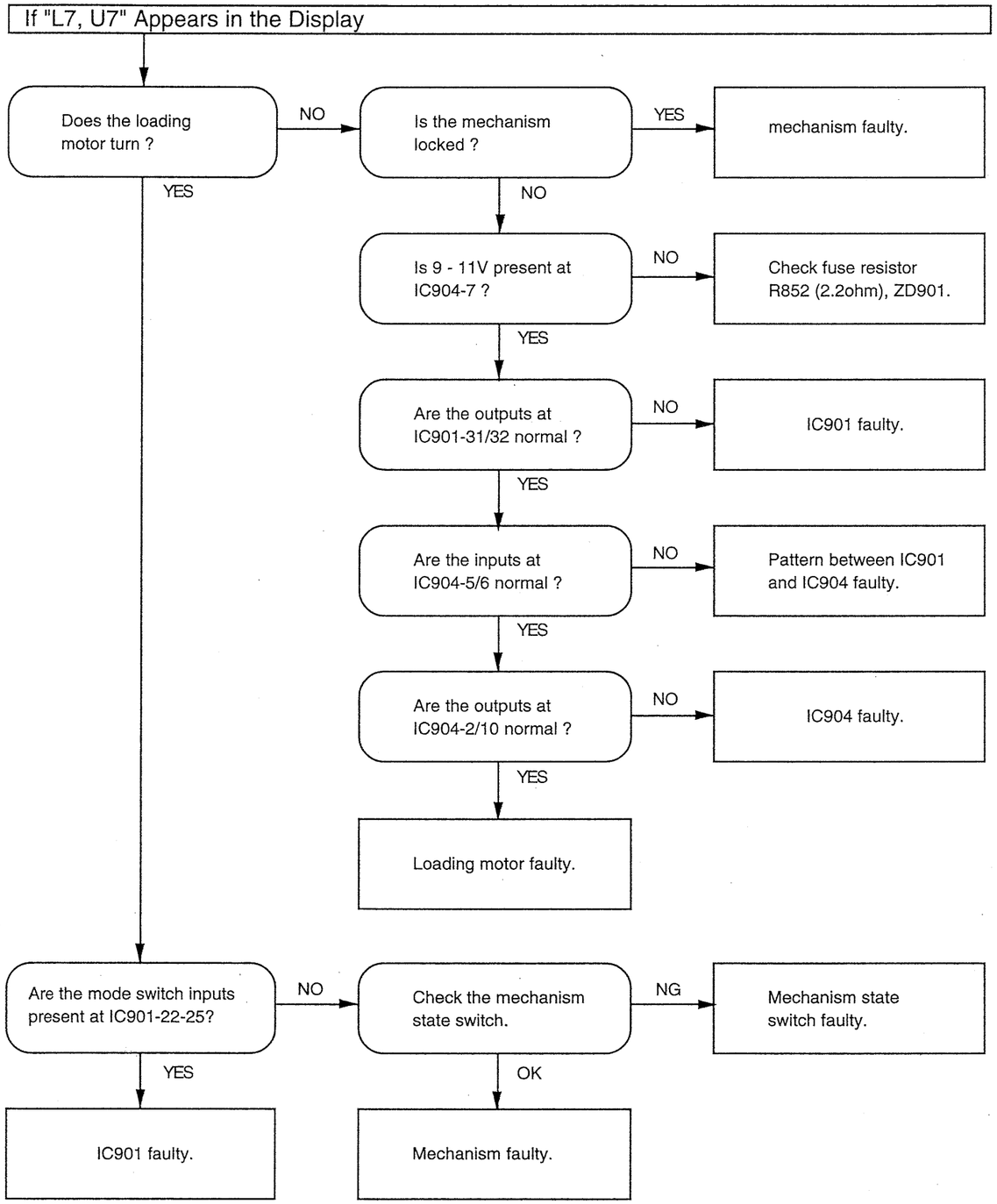


Note: The cylinder system has priority. If the cylinder motor is not driven normally, the capstan motor will not be driven.

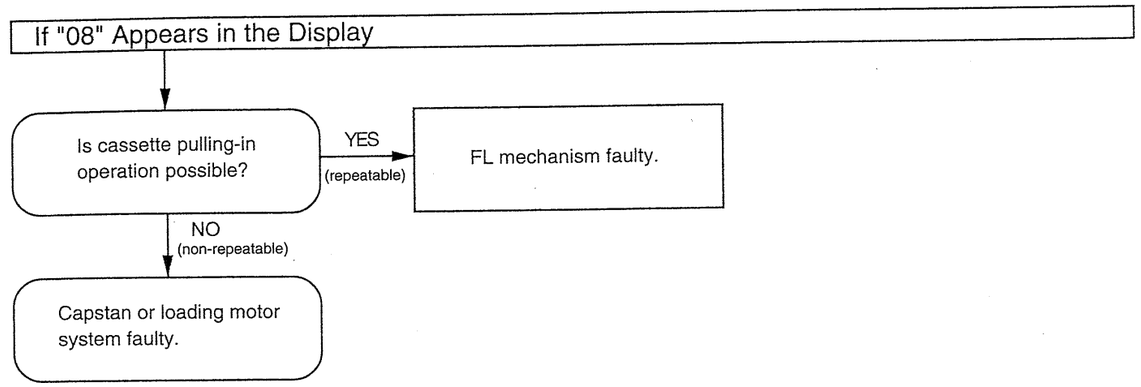
If "05" Appears in the Display



If "L7, U7" Appears in the Display



If "08" Appears in the Display



5. Troubleshooting the Switching Regulator

This section summarizes troubleshooting of defects in the switching regulator. Perform diagnosis, taking each defective phenomenon into consideration. Even if the same defective phenomenon appears, it may be caused by other circuits, rather than the switching regulator, so use this item as a reference.

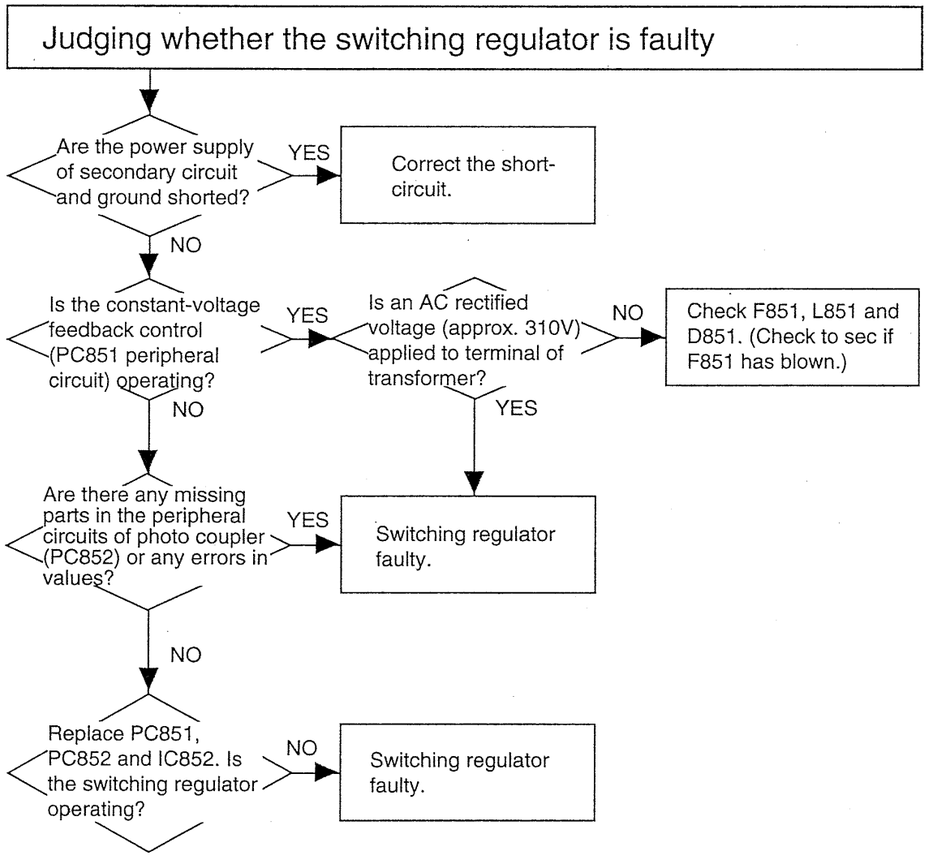
Cautions when checking and repairing the switching regulator circuit

When checking the primary circuit (circuit No. 8XX) of power supply, use a two-pole AC outlet for the test equipment (attach a conversion adapter to the test equipment plug in order to connect it to a three-pole outlet). Connect a 33 ohm resistor (at least 1.0W) between PG0852 pin 5 (A5.4V) and pin1(GND) to check the operation of unassembled REG board, by separating the MAS board. (Board will not operate normally nless a resistor is connected.) Also, short-circuit PG0852 pin 3 (P.CONT) and pin 5 (A5.4V) to set the circuit to power-on status. (The circuit will not operate normally unless the resistor is connected.)

Be careful of electric shock

There are many components that generate high voltage in the primary circuit of power supply: Take great care when servicing the unit or handling it with power on.

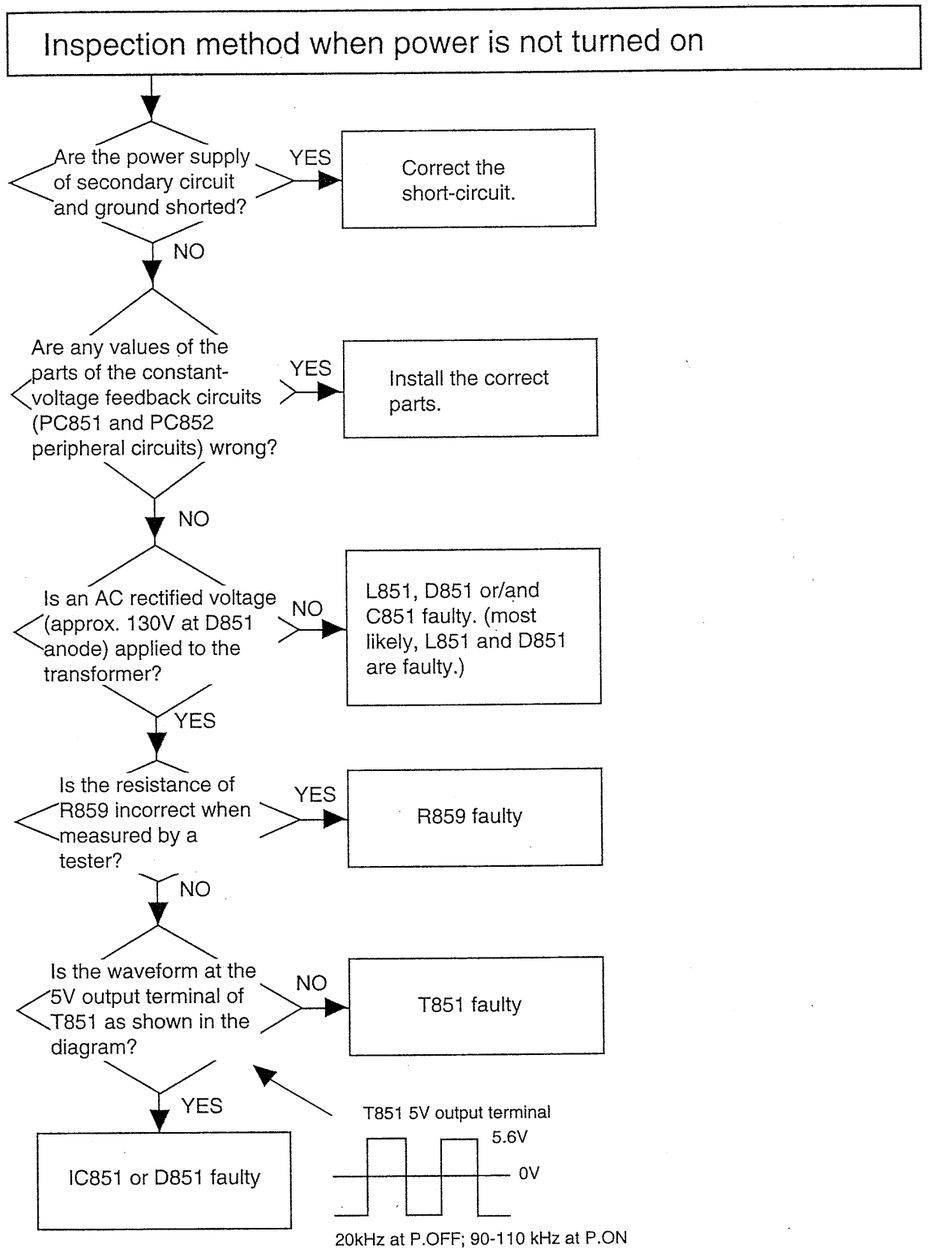
Judging whether the switching regulator is faulty


Are the power supply of secondary circuit and ground shorted?
YES
Correct the short-circuit.
NO
Is the constant-voltage feedback control (PC851 peripheral circuit) operating?
YES
Is an AC rectified voltage (approx. 310V) applied to terminal of transformer?
NO
Check F851, L851 and D851. (Check to sec if F851 has blown.)
YES
NO
Are there any missing parts in the peripheral circuits of photo coupler (PC852) or any errors in values?
YES
Switching regulator faulty.
NO
Replace PC851, PC852 and IC852. Is the switching regulator operating?
NO
Switching regulator faulty.

Troubleshooting when power is not turned on:

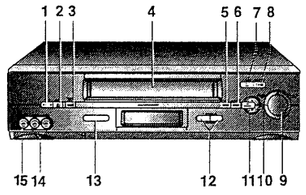
If the switching regulator is normal and there is a defect in another circuit (shorting between the power supply and ground of the secondary circuit), the protection circuit will operates and the power will not come on. In addition, if defect occurs in the switching regulator, that the VCR power may not turn on or the power fuse may have blown.

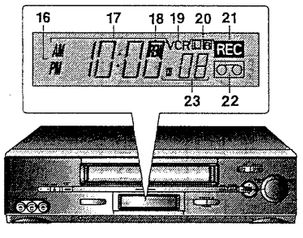
Inspection method when power is not turned on


Are the power supply of secondary circuit and ground shorted?
YES
Correct the short-circuit.
NO
Are any values of the parts of the constant-voltage feedback circuits (PC851 and PC852 peripheral circuits) wrong?
YES
Install the correct parts.
NO
Is an AC rectified voltage (approx. 130V at D851 anode) applied to the transformer?
NO
L851, D851 or/and C851 faulty. (most likely, L851 and D851 are faulty.)
YES
Is the resistance of R859 incorrect when measured by a tester?
YES
R859 faulty
NO
Is the waveform at the 5V output terminal of T851 as shown in the diagram?
NO
T851 faulty
YES
IC851 or D851 faulty
T851 5V output terminal
5.6V
0V
20kHz at P.OFF; 90-110 kHz at P.ON

CUSTOMER CONTROLS

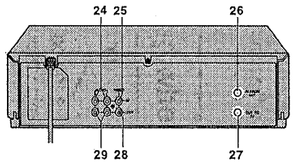
VCR CustomerControls





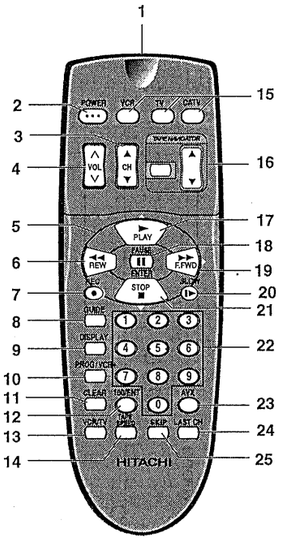
Item No.	Function	Page
1	POWER button	2
2	EJECT button	9
3	Satellite LINK button with indicator	40
4	Cassette compartment	9
5	TIMER indicator	44
6	REC/IRT button with indicator	37
7	STOP button	28
8	PLAY/STILL button	30
9	Shuttle ring	32
10	Select buttons	54
11	Tape Navigator button with indicator	52
12	CHANNEL (channel up/down)/ TRACKING buttons	37 29
13	Infrared receiver	8
14	AUDIO IN L (MONO), R jacks	62
15	VIDEO IN jack	62
	VCR Display	
16	AM/PM indicators	18
17	Time, Time counter, Tape remaining or	18 34 34
61	VCR mode indicator ("–" appears during reverse direction viewing) PLAY — playback SRCH — double-speed play, visual search and skip playback	28 28 29/30
	SLOW — slow play	30
	REW — rewind	28
	FF — fast forward	29
	STILL — play pause and frame advance	30
18	REM (tape remaining time) indicator	34
19	VCR, operate mode	38
20	Audio indicators	31
21	REC — record (flashes during record pause)	37
22	Tape-in indicator	9
23	TV channel or Auxiliary (L1/L2)	37

VCR Customer Controls

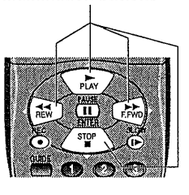


Item No.	Function	Page
24	AUDIO IN L, R jacks	61
25	VIDEO IN jack	63
26	IN FROM ANT. — signal input	10
27	OUT TO TV — signal out to TV	10
28	VIDEO OUT jack	11
29	AUDIO OUT L, R jacks	11

Remote Control Customer Controls



Illumination buttons



Item No.	Function	Page
1	Transmission window	8
2	POWER button	22
3	CH (channel up/down) button	37
4	VOL button — increase or decrease the audio volume	59
5	Cursor buttons	—
6	REW button — fast rewind or search	28/30
7	REC— record button	37
8	GUIDE — to recall OSD menu	22
9	DISPLAY — to recall on-screen display	34
10	PROG/VCR+ (programming) button	42
11	CLEAR — clears button	34
12	100/ENT button	37
13	VCR/TV mode select button	10
14	TAPE SPEED button — select the recording speed SP or EP.	36
15	VCR, TV, CATV — device buttons let you set the remote to control one of the three devices	59/60
16	TAPE NAVIGATOR buttons — to use the TAPE NAVIGATOR function	52
17	PLAY button — playback	28
18	PAUSE/ENTER buttons	30
19	F.FWD button — fast forward or search	29/30
20	SLOW button — for slow motion picture	30
21	STOP button — stops play/record function	28
22	Number buttons	24
23	AVX button — select L1 or L2	61
24	LAST CH button – Switches to the TV channel you watched previously during the current viewing session.	59
25	SKIP button	29

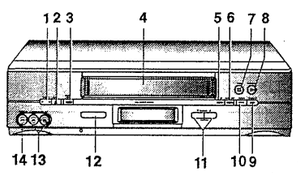
* If you want to operate the VCR with remote control after operating the TV, first press the VCR button, and then press required buttons on the remote control.

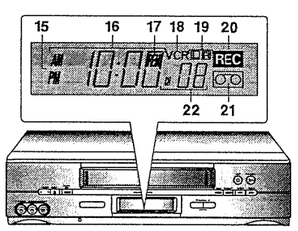
Aboutthe illuminated buttons:

- When you press any of illumination buttons, the illumination will turn on.
  The illumination goes off 5 seconds later automatically, if you do not press the buttons.

CUSTOMER CONTROLS

VCR CustomerControls





Item No.	Function	Page
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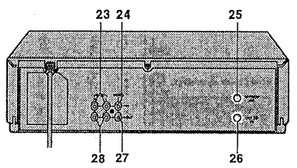
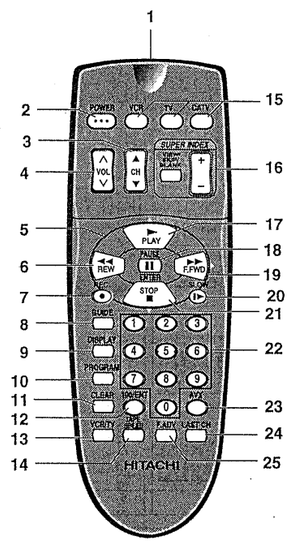
4	Cassette compartment	9
5	TIMER indicator	44
6	REC/IRT button with indicator	37
7	STOP button	26
8	PLAY/STILL button	28
9	F.FWD button	27
10	REW button	26
11	CHANNEL (channel up/down)/ TRACKING buttons	36 27
12	Infrared receiver	8
13	AUDIO IN L (MONO), R jacks	49
14	VIDEO IN jack	49
	VCR Display	
15	AM/PM indicators	18
16	Time, Time counter, Tape remaining or	18 34 34
	VCR mode indicator ("–" appears during reverse direction viewing)	26
	PLAY — playback	26
	SRCH — double-speed play, visual search and skip playback	29
	SLOW — slow play	29
	REW — rewind	26
	FF — fast forward	27
	STILL — play pause and frame advance	28
17	REM (tape remaining time) indicator	34
18	VCR, operate mode	38
19	Audio indicators	30
20	REC — record (flashes during record pause)	37
21	Tape-in indicator	9
22	TV channel or Auxiliary (L1/L2)	36 48

VCR CustomerControls



Item No.	Function	Page
23	AUDIO IN L, R jacks	48
24	VIDEO IN jack	50
25	IN FROM ANT. — signal input	10
26	OUT TO TV — signal out to TV	10
27	VIDEO OUT jack	11
28	AUDIO OUT L, R jacks	11

Remote ControlCustomerControls



Item No.	Function	Page
1	Transmission window	8
2	POWER button	22
3	CH (channel up/down) button	36
4	VOL button — increase or decrease the audio volume	46
5	Cursor buttons	—
6	REW button — fast rewind or search	26/29
7	REC— record button	37
8	GUIDE — to recall OSD menu	22
9	DISPLAY — to recall on-screen display	34
10	PROGRAM (programming) button	42
11	CLEAR— clears button	34
12	100/ENT button	36
13	VCR/TV mode select button	10
14	TAPE SPEED button — select the recording speed SP or EP.	36
15	VCR, TV, CATV — device buttons let you set the remote to control one of the three devices	46/47
16	SUPER INDEX buttons — to use the SUPER INDEX function	31
17	PLAY button — playback	26
18	PAUSE/ENTER buttons	28
19	F.FWD button — fast forward or search	27/29
20	SLOW button — for slow motion picture	29
21	STOP button — stops play/record function	26
22	Number buttons	24
23	AVX button — select L1 or L2	48
24	LAST CH button – Switches to the TV channel you watched previously during the current viewing session.	46
25	F.ADV button	28

* If you want to operate the VCR with remote control after operating the TV, first press the VCR button, and then press required buttons on the remote control.

GUIDE INDICATIONS IN VCR DISPLAY AND OSD SCREEN

- VT-UX6570A/UX6530A/UX6530AW -

■ Guide indications in VCR display and OSD screen

The following indications appear in the VCR display and OSD screen to tell you the current status of your VCR.

OSD	Indication	When it appears	Meaning and troubleshooting
	(flashes for about 5 seconds)	When programming the timer	• The VCR clock has been set to "– : – –". Set the time and program the timer.
	(flashes for about 5 seconds)	When programming the timer (by using VCR display)	• A non-existing PlusCode number has been entered. Check the PlusCode number of the program and enter it again.
	(flashes for about 5 seconds)	When programming the timer	• Eight programs have already been stored. Cancel unnecessary program and transfer the new programming.
PLEASE INSERT TAPE Display for about 5 sec.	(flashes for about 3 seconds)	When you press the play, record, fast forward or rewind button	• A cassette has not been inserted. Insert a cassette.
NO TAB IS ON THIS TAPE PLEASE INSERT TAPE WITH TAB Display for about 5 sec.	(flashes for about 3 seconds)	When you press the record button for recording or dubbing.	• A cassette without safety tab has been inserted. It will be ejected automatically. Insert a cassette with safety tab intact.
	(flashes for about 3 seconds)	When you turn power on	• The video heads are dirty. Cleaning them is recommended. To switch off the CL display, clean the heads, turn the power off and press the channel ▲ button. The CL display automatically switches off when recording and playback are performed for about 5 hours after it appears.

- VT-UX6570A/UX6530A/UX6530AW -

■ Guide indications in VCR display and OSD screen

The following indications appear in the VCR display and OSD screen to tell you the current status of your VCR.

OSD	Indication	When it appears	Meaning and troubleshooting
	(flashes for about 5 seconds)	When programming the timer	• The VCR clock has been set to "– : – –". Set the time and program the timer.
	(flashes for about 5 seconds)	When programming the timer	• Eight programs have already been stored. Cancel unnecessary program and transfer the new programming.
	(flashes for about 3 seconds)	When you press the play, record, fast forward, rewind or super index button	• A cassette has not been inserted. Insert a cassette.
PLEASE INSERT TAPE Display for about 5 sec.	(flashes for about 3 seconds)	When you press the record button for recording or dubbing. When you press the ▢(VIEW/SKIP/BLANK) button for BLANK SEARCH only TAb is appears in the display.	• A cassette without safety tab has been inserted. It will be ejected automatically. Insert a cassette with safety tab intact.
NO TAB IS ON THIS TAPE PLEASE INSERT TAPE WITH TAB Display for about 5 sec.	(flashes for about 3 seconds)	When you turn power on	• The video heads are dirty. Cleaning them is recommended. To switch off the CL display, clean the heads, turn the power off and press the channel ▲ button. The CL display automatically switches off when recording and playback are performed for about 5 hours after it appears.

CHAPTER 2 DISASSEMBLY

1. Before Starting Disassembly

1) Unplug the power cord from the AC outlet.
2) [Removal procedure]
   If a special procedure is required when dismantling any component, it is indicated using numbers. Follow the numbers ((1),(2),(3) ...) shown in the illustrations.
   [Reinstallation procedure]
   Reinstall each component in the reverse order to removal when otherwise not specified.
3) Insert card connectors securely all the way as they are of the direct insertion type.

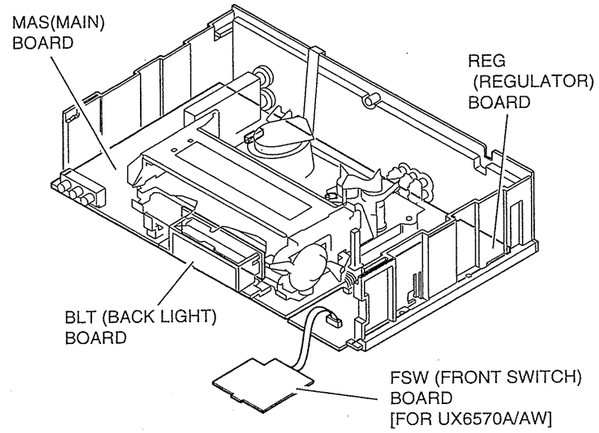


Fig. 1-1

2. Disassembly Method

When replacing defective parts, first refer to the "Parts hierarchy chart" shown below. This chart shows the procedure for parts removal when replacing defective parts.

[How to use the parts hierarchy chart]
(1) Locate the part to be replaced.
(2) Check the parts in the ranks above the part to be replaced and start dismantling.
(3) Replace the defective part and reinstall the parts in the reverse order to that shown in the parts hierarchy chart.

Parts Hierarchy Chart

Note: Dismantle parts in the eject state.

Parts to remove	Item
Top cover	2-1
Front panel	2-1
Rear panel	2-1
U4-FL mechanism	2-1
U4 mechanism	2-2
MAS board	2-3

Parts to remove	Item
FSW board	2-1
BLT board	2-3
REG board	2-3

(*) The U4 mechanism can be removed even with the U4-FL mechanism assembled.

Disassembly Procedure Diagrams

Item	Parts to remove
2-1	Top cover, front panel, rear panel, FSW board and U4-FL mechanism

Caution when reinstalling the U4-FL mechanism:
Install the U4-FL mechanism only while the cassette holder is pulled to the front (otherwise, the switch arm could damage the FL switch on the circuit board.)

Caution when reinstalling the front panel:
Always install the front panel while pushing the cassette door so that the boss of the door arm is in front of the boss support of the door.

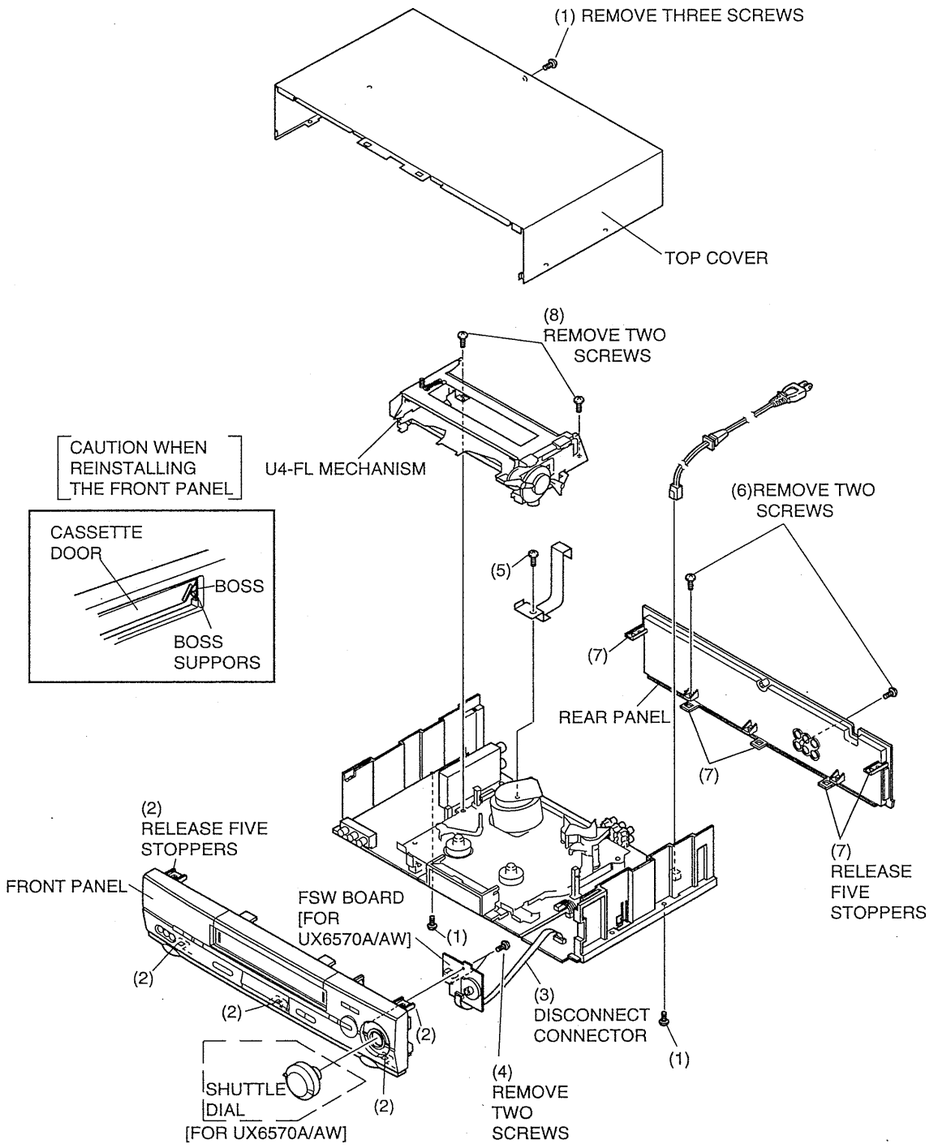


Fig. 2-1

Item	Parts to remove
2-2	U4 Mechanism

Supplementary explanation:
1) The U4 mechanism can be removed even with the U4-FL mechanism assembled.
2) When checking the back (pattern side) of MAS board, remove the U4 mechanism and MAS board shown in item 2-3, and then reinstall the MAS board and U4 mechanism. (See the item on Service Position on page 3-1 for details.)

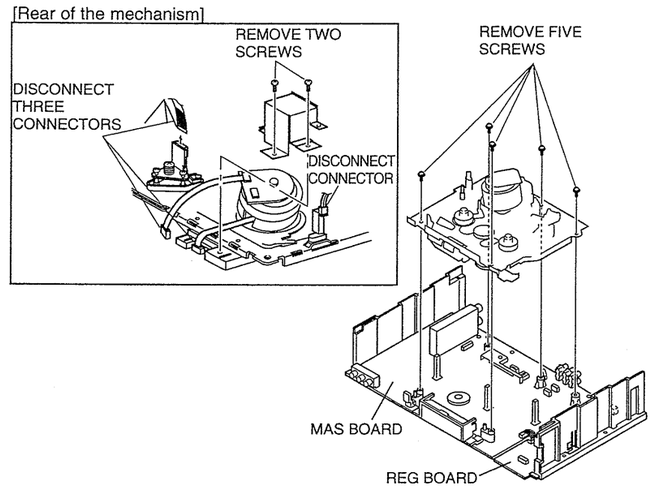


Fig. 2-2

2-3	MAS board, REG board, BLT board

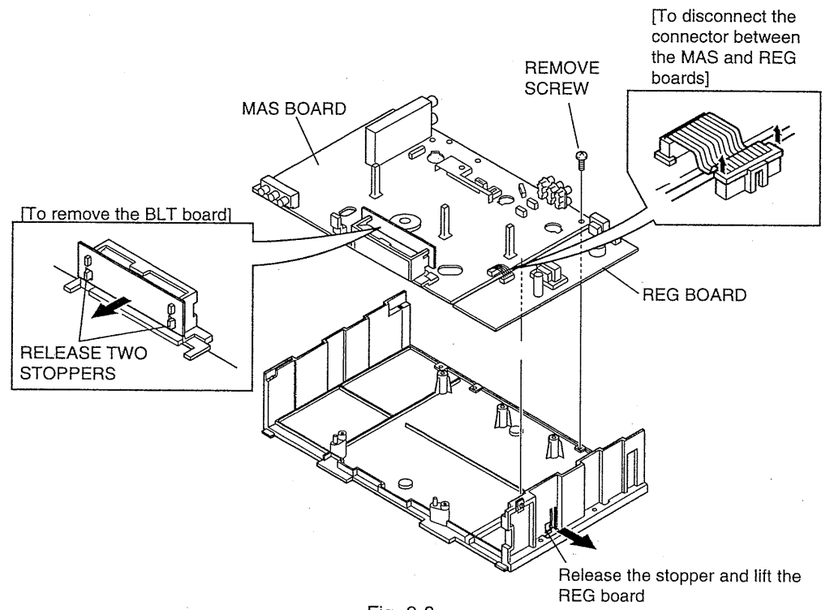

[To disconnect the connector between the MAS and REG boards]
REMOVE SCREW
MAS BOARD
[To remove the BLT board]
REG BOARD
RELEASE TWO STOPPERS
Release the stopper and lift the REG board

Fig. 2-3

3. Cautions When Reinstalling the U4 Mechanism

This VCR has mechanism sensors on the MAS board and the capstan and loading motors are connected via direct connectors. Therefore, when reinstalling the U4 mechanism, observe the following cautions.

1) Align the ▽ mark and mode no. 1 of the mechanism state switch on the MAS board. (Mode no. 1 of the mechanism state switch has a click position.)

2) Check that mode no. 1 on the P drive gear in the mechanism and the ▽ mark of the spring hook are aligned. If they are not aligned, turn the loading motor pulley to align them.

3) Pass the end LED through the hole in the mechanism and install the mechanism from immediately above using the installation position holes as reference. Check that the boss of the mechanism state switch and the hole in the cam gear are aligned.

4) Push the terminal sections (shaded sections ▨) of the capstan and loading motors and check that they are inserted securely.

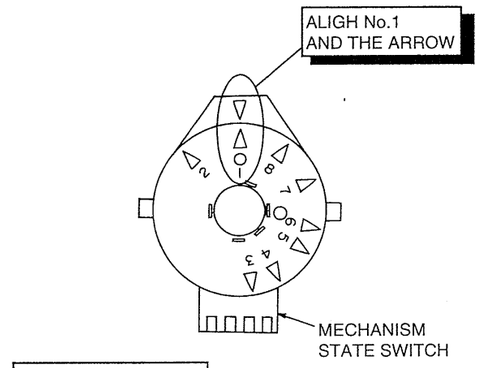


Fig. 3-1

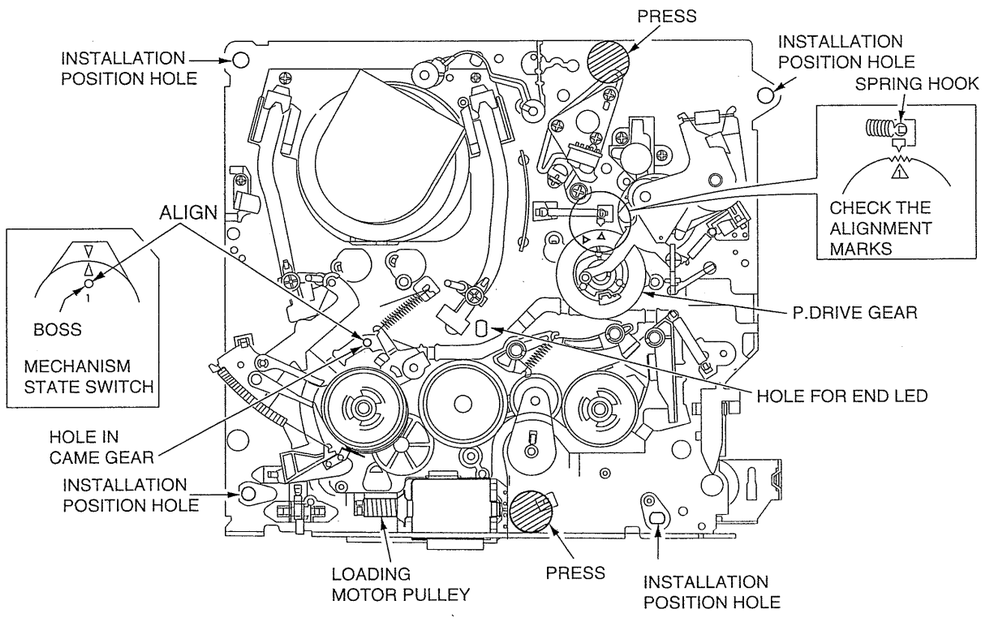


Fig. 3-2

CHAPTER 3 ELECTRIC CIRCUIT ADJUSTMENT

Service Positions

1. Servicing Position when Checking Operation

Remove the top cover, front and rear panels to check the operation.

Caution: When checking the picture on the screen, leave the shield cover of the connector between the cylinder motor and MAS board attached: Removing it will result in noise in playback picture.

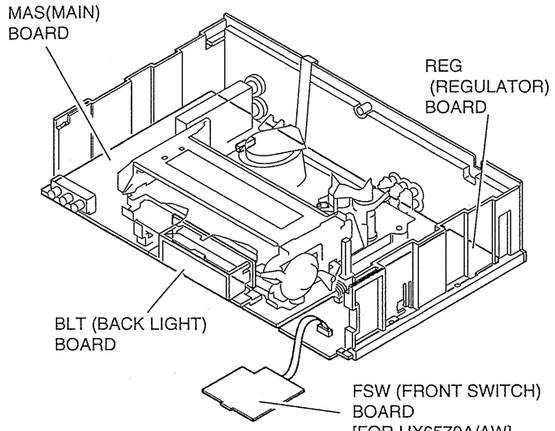


Fig. 1

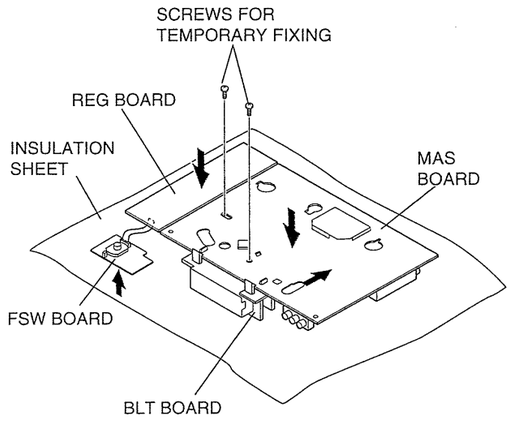


Fig. 2

2. Servicing Positions when Checking Circuits

1) Remove the top cover and front panel.
2) Remove the rear panel.
3) Remove the U4 mechanism, MAS/BLT/FSW board assembly and REG board from the frame.
4) Assemble the U4 mechanism and MAS board assembly, and then turn over the entire board. Check each board from the pattern side, as shown by the arrows. Note that insulation sheet must be laid under the board.

Since the U4 mechanism and MAS board are linked only via direct connectors of the capstan and loading motors, the U4 mechanism could come off when the following service position is set. To prevent this, during servicing only, use two screws to temporarily fix the mechanism to the hole beside IC0901 (main microprocessor). Remove the screws after servicing is complete: If screws are not removed, the MAS board cannot be fixed to the frame correctly.

When separating the MAS board and checking the operation of unassembled REG board, connect a 66 ohm resistor between PG 0852 pin5 (A5.4V) and pin 1 (GND). (Operation will not be normal without this connection.)
Also, short-circuit PG0852 pin 3 (P.CONT) and pin 5 (A5.4V) to set the circuit to power on. (Power will remain off without the short-circuit.)

There are many components that generate high voltages in the power supply block (primary circuit of transformer) at the right of VCR: Take special care when handling this block during servicing and when power is turned on.

1. Test equipment/jigs necessary for adjustment

1) Dual-trace oscilloscope
2) Color bar generator
3) Voltmeter
4) Monitor TV (with A/V jacks)
5) Alignment tapes:
   NTSC tape: Part No. 7099052
   30HMP2-1:Part No. 7099089
   24HMAF-2: Part No. 7099175
   (Hi-Fi alignment tape)
6) Blank tape

2. Cautions on adjustment

1) The following conditions apply when otherwise not specified.
   Probe of oscilloscope: 10:1
   Synchronization of oscilloscope: Internal sync
   Ground of test equipment: PG2508 pin 6 (on MAS board)
2) When performing more than one adjustment, follow the specified order.

3. Tips for adjustment

3-1.Procedure to reset the main microprocessor

The main microprocessor is not reset even when the power cord is unplugged from the AC outlet because its power is backed up by a backup circuit. Press S0709 on the MAS board to reset the entire microprocessor.
It is recommended that you press the reset switch after reinstalling the front panel.

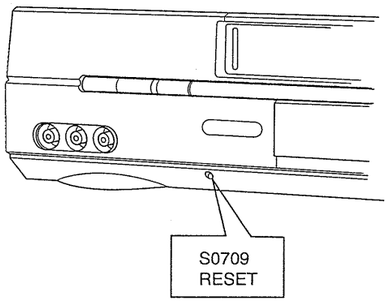


Fig. 3

3-2. Procedure to obtain the EP head playback mode (X-value adjustment test mode)

Press the "1" and "4" buttons of the remote control provided simultaneously when an alignment tape is being played and hold them, then press the "CHANNEL ▽" button on the VCR; The VCR enters the EP head playback mode (X-value adjustment test mode).
Check that "TEST" appears in the LCD display.

4. Connections of test equipment

Connect the test equipment as follows when otherwise not specified.

1) Connect a color bar generator to the video input jack of the VCR.
2) Connect a monitor TV to the video output jack of the VCR.
3) Connect a monitor TV (able to handle a stereo signal) to the audio output jack.

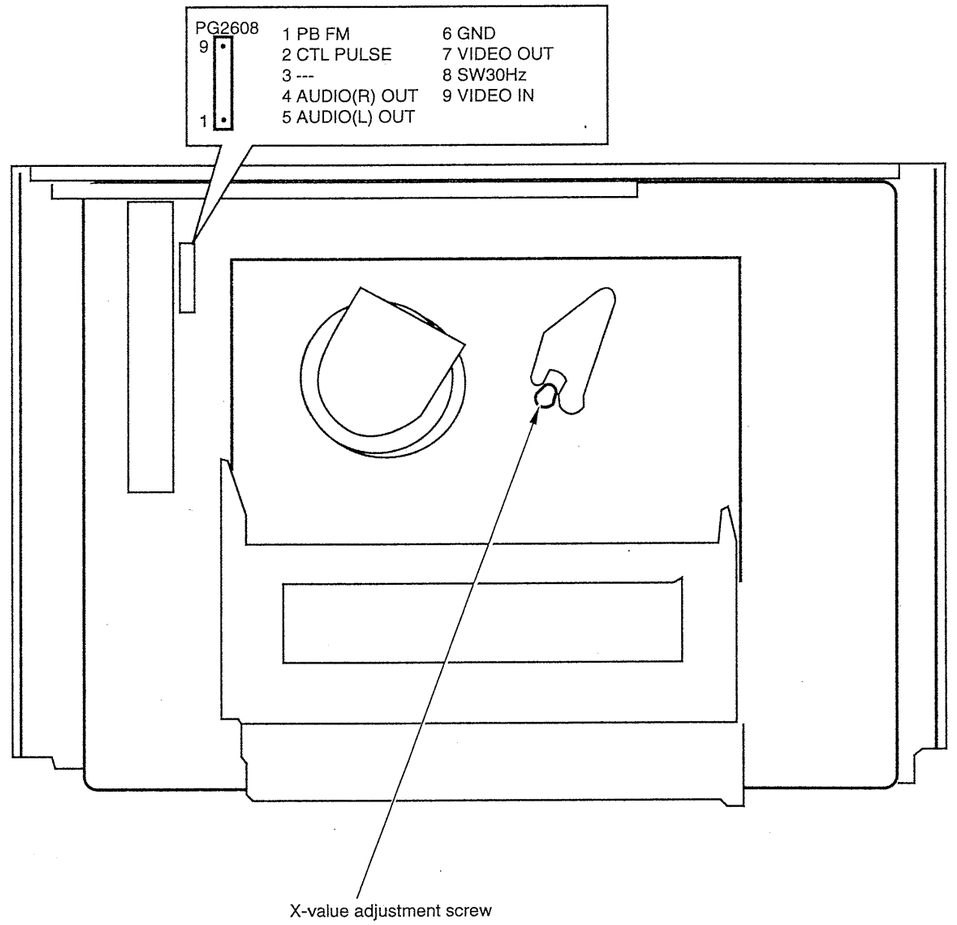


Fig. 4 MAS (Main) Circuit Board [Components Side]

6. Servo Circuit Adjustments

6-1. Switching point adjustment (Fig. 4)

Purpose:
To set the switching point of the video heads during playback to the center where the CH-1 and CH-2 envelopes overlap each other.

Fault due to incomplete adjustment:
Vertical sync signal is degraded and vertical jitter occurs.
Switching noise appears across the bottom of the screen.

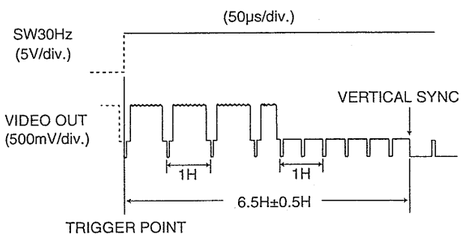
Test Equipment/Jigs and Connection Points
Oscilloscope CH-1: Video output jack
CH-2: PG2508-8(SW30Hz)
Alignment tape (30HMP2-1)

State of VCR
1)Play the alignment tape
2)Set to the X-value adjustment test mode.

Adjustment Point
F.FWD button(Remote control)
REW button(Remote control)

Adjustment Procedure
1) Play the alignment tape.
2) Press the "1" and "4" buttons of the remote control provided simultaneously and hold them, then press the "CHANNEL ▽" button of the VCR to set the VCR to the test mode.
(Check the "TEST" appears in the display.)
3) Press the "F.FWD" and "REW" buttons of the remote control so the phase from the verticalsync to the trailing edge (trigger position) of the SW30Hz pulse is set to 6.5H±0.5H
4) Press the "STOP" button to release the test mode.

Waveforms



<Conditions of oscilloscope>
Trigger with CH-2.
Set the sync slope to "+".

6-2. X-value adjustment (Fig. 4)

Purpose:
To ensure compatibility with other VCRs.

Fault due to incomplete adjustment:
When a tape recorded by another VCR is played back, the tracking is not optimized and noise appears on the screen.

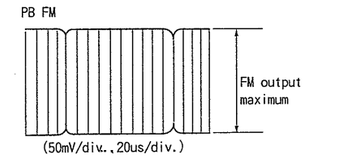
Test Equipment/Jigs and Connection Points
Oscilloscope CH-1: PG2508-1 (PB FM)
CH-2: PG2508-8 (SW30Hz)
Alignment tape (30HMP2-1)

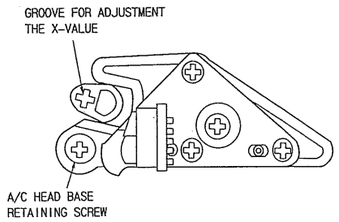
State of VCR
1)Play the alignment tape.
2)Set to the X-value adjustment test mode.

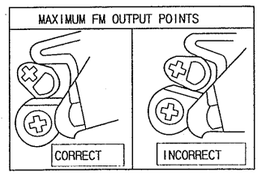
Adjustment Point
Groove for the adjustment X-value

Adjustment Procedure
1) Play the alignment tape.
2) Press the "1" and "4" buttons of the remote control provided simultaneously and hold them, then press the "CHANNEL ▽ button of the VCR to set the VCR to the test mode. (Check that "TEST" appears in the display)
3) Loosen the screw holding the A/C head base (do not loosen it excessively).
4) Insert a screwdriver into the groove for adjusting the X-value and adjust so the FM output is maximum. There are two maximum FM output points when the groove for adjusting the X-value is turned. Adjust the FM output to a maximum when the groove is at the correct position as shown in the figure below.
5) Press the "STOP" button to release the test mode.

Waveforms







6-3. Vertical jitter adjustment

Purpose:
To suppress vertical jitter during slow and still play.

Fault due to incomplete adjustment:
Vertical jitter appears in the picture during slow and still play.

Test Equipment/Jigs and Connection Points
Monitor TV : Video output jack
Color bar generator: Video input jack
Blank tape

State of VCR
Record a color bar signal and play it using the same VCR.

Adjustment Point
CHANNEL ▲
CHANNEL ▼

Adjustment Procedure
<EP vertical jitter correction>: Record in the EP mode and play it back using the same VCR.
1) Press the "STILL (PAUSE)" button to set the VCR to the still play mode.
2) Use the CHANNEL buttons of the VCR to suppress vertical jitter of the picture.
<SP vertical jitter correction>: Record in the SP mode and play it back using the same VCR.
1) Press the "STILL (PAUSE)" button to set the VCR to the still play mode.
2) Use the CHANNEL buttons of the VCR to suppress vertical jitter in the picture.

6-4. Forward slow tracking preset adjustment

Purpose:
To adjust the timing with which the brake pulse of the capstan motor is generated during slow play so that noise is minimum.

Fault due to incomplete adjustment:
Noise appears during slow play and the picture is not clear.

Test Equipment/Jigs and Connection Points
Monitor TV : Video output jack
Color bar generator: Video input jack
Blank tape (T-120)

Adjustment Point
CHANNEL ▲
CHANNEL ▼

Adjustment Procedure
1) Record a signal on the middle of a T-120 blank tape in the EP mode and play it back using the same VCR.
2) Press the "1" and "4" buttons of the remote control (provided) simultaneously during playback and hold them, then press the "PLAY" button to set the VCR to the forward forward test slow mode.
3) Use the CHANNEL buttons so the slow feed noise appears across the bottom of the monitor screen and then it is driven out from the bottom of the screen.
4) Check that no noise appears on the monitor screen.
5) Press the "PLAY" button to return the VCR to the playback mode (the preset data is written to the EEPROM).
6) Perform the same procedure to perform slow tracking preset adjustment in the SP mode. Do not press the reset switch after adjustment when the power is not turned on as the preset value could drift. If the preset value drifts, turn the power on and press the reset switch again for recovery.

6-5. Reverse slow tracking preset adjustment

Purpose:
To adjust the timing with which the brake pulse of the capstan motor is generated during reverse slow play so that noise is minimum.

Fault due to incomplete adjustment:
Noise appears during reverse slow play and the picture is not clear.

Test Equipment/Jigs and Connection Points
Monitor TV : Video output jack
Color bar generator: Video input jack
Blank tape (T-120)

Adjustment Point
CHANNEL ▲
CHANNEL ▼

Adjustment Procedure
1) Record a signal on the middle of a T-120 blank tape in the EP mode and play it back using the same VCR.
2) Press the "1" and "4" buttons of the remote control (provided) simultaneously during still play and hold them, then press the "PLAY" button to set the VCR to the reverse test slow mode.
3) Use the CHANNEL buttons so the slow feed noise appears across the bottom of the monitor screen and then it is driven out from the bottom of the screen.
4) Check that no noise appears on the monitor screen.
5) Press the "PLAY" button to return the VCR to the playback mode (the preset data is written to the EEPROM).
6) Perform the same procedure to perform reverse slow tracking preset adjustment in the SP mode.
Do not press the reset switch after adjustment when the power is not turned on as the preset value could drift. If the preset value drifts, turn the power on and press the reset switch again for recovery.

7. Audio Circuit Adjustments

7-1. Hi-Fi audio playback level check

Purpose:
To set the playback level of the Hi-Fi audio signal to the specified value.

Fault due to incomplete adjustment:
The appropriate volume cannot be obtained during playback.

Test Equipment/Jigs and Connection Points
Voltmeter
When checking L-CH:Audio output (L) jack
When checking R-CH:Audio input (R) jack
Hi-Fi alignment tape (24HMAF-2)

State of VCR
Play Hi-Fi alignment tape.

Adjustment procedure
Use the same checking procedure for both the L and R channels.
Check that the voltmeter reads -7.8dBs±3.0dBs.
If it cannot be confirmed, check the playback signal system.

8. Cylinder Rotation Accumulated Hours of Usage Display

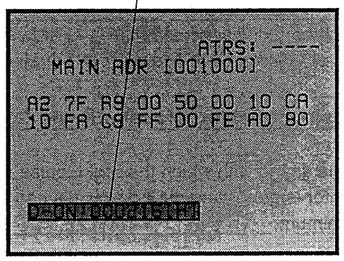
This VCR has a function which displays the accumulated hours of cylinder rotation as a reference for replacing the cylinder.

1. Method for display
simultaneously holding down the "1 " and "4 " buttons on the provided remote control, with power ON and without a cassette inserted, press the "channel up" button on the VCR. When power is turned off, the display will disappear.

2. Clearing the accumulated hours
Same as for shipment mode initial setting.

3. Example of displaY [In case of 216 hours]

Accumulated hour display section



VCR DISPLAY

9. List of Data in EEPROM and Initial Settings

This VCR uses two EEPROM components; each memory stores the data as listed in the table below:
The table also lists the data that were set when the shipment mode was initialized, tape navigation map data was initialized, and trouble display and cylinder rotation accumulated hours were cleared.

Data	Data storing		List of data to be initialized			Cliaring of trouble display (*1)
	IC0903 VCR EEPROM	IC0906 NAVI EEPROM	Shipment mode initialization	Tape map data initialization	Clearing of trouble / cylinder	
Channel select and displayed channel data	Yes	No	Yes	No	No	No
Channel scan list	Yes	No	Yes	No	No	No
VCR mode selection data	Yes	No	Yes	No	No	No
RF channel data	Yes	No	Yes	No	No	No
Trouble data	Yes	No	Yes	No	Yes	Yes
Clock setting channel data	Yes	No	Yes	No	No	No
Switching point data	Yes	No	No	No	No	No
Slow tracking data	Yes	No	No	No	No	No
Artificial V sync data	Yes	No	No	No	No	No
Cylinder rotation accumulated hour data	Yes	No	Yes	No	Yes	No
Tape navigation map data	No	Yes	No	Yes	No	No

(*1) See page 1-7 for details on clearing trougble display data.

10. Caution when Initializing IC0903 (VCR-EEPROM)

If the shipment mode initialization (initializing IC903) is executed, the cylinder rotation accumulated hour data will also be cleared. If the shipment setting mode is enforced without clearing any data, such as cylinder rotation accumulated hour data, be sure to perform settings manually, referring to the following "factory setting positions (defaults)".
Supplement: Some functions will not appear, depending on the model: Set each position, following the contents displayed on the OSD screen.

[A]	MENU		[D]	TAPE NAVIGATOR	
1	AUTO GRAY	[ON]	1	TAPE NAVIGATOR	[ON]
2	TAPE ANALYZER	[ON]	[E]	AUDIO	
[B]	CH PRESET		1	AUDIO	[HIFI]
1	CH SOURCE	[ON]	2	STEREO/MONO	[STEREO]
[C]	CLOCK		3	SAP	[OFF]
1	SET MODE	[AUTO]			
2	TIME ZONE	[AUTO]			
3	D.S.T MODE	[AUTO]			

11. List of Hidden Command

The following tables list the mode setting commands during adjustment and EEPROM initial setting commands.

11-1. Mode setting commands during adjustment

Item	Command acceptance mode	Operation	Remarks
Tracking center	Play	Press the "1" and "4" buttons of the remote control simultaneously.	
X-value adjustment test mode	Play	While simultanuously holding down the "1" and "4" buttons of the remote control simultaneously and press the "CHANNEL ▽"button (S0703 on MAS board) on the VCR.	"TEST" will light in the LCD
Forward test slow mode	Play	While simultanuously holding down the "1" and "4" buttons of the remote control simultaneously and press the "PLAY" button (S3707 on REG board or S2701 on FSW board) on the VCR.	
Reverse test slow mode	Still play	While simultanuously holding down the "1" and "4" buttons of the remote control simultaneously and press the "PLAY" button on (S3707 on FSW board or S2701 on FSW board) the VCR.	

11-2. EEPROM initialization commands

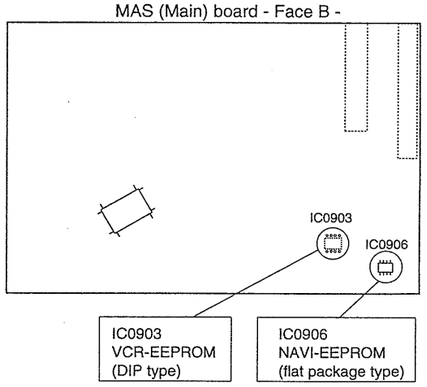
Item	Command acceptance mode	Operation	Remarks
Shipment mode initialization	EJECT	While holding down the record button (S0701 on MAS board) on the VCR, press the microprocessor reset button (S0709 on MAS board).	Release the record button when "--:--" appears in the display.
Tape map data initialization	EJECT (power off)	While holding down the TAPE NAVI button (S2704 on FSW board) on the VCR, press the microprocessor reset button (S0709 on MAS board).	Relearing the TAPE NAVI button when the lit REC LED turns off.
Clearing of trouble display / cylinder rotation hour	----------	While holding down the playback button (S2701 on FSW board or S3707 on REG board) on the VCR, press the microprocessor reset button (S0709 on MAS board).	Release the playback button when "RFCH-03" or "RFCH-04" apears in the display.
Clearing of trouble display [*1]	----------	While holding down the channel ▼ button (S0703 on MAS board) on the VCR, press the microprocessor reset button (S0709 on MAS board).	Release the channel v button when "00" appears in the display.

[*1] See page 1-5 for details on clearing trougble display data.

12. Caution When handling IC0906 (NAVI-EEPROM) and IC0903 (VCR-EEPROM)

IC0906 (NAVI-EEPROM) stores the navigation data of the tapes on which the customer has made recordings. IC0903 (VCR-EEPROM) stores the data linked with IC0906. When MAS board is replaced during servicing, remove the ROM from the new board and install the ROM from the repaired product. Do not initialize the tape map information at this time.

Caution: Do not initialize the tape map data except when replacing IC0906 (NAVI-EEPROM) due to a defect in this memory IC: Otherwise the tape navigation data stored by the customer will be erased.



13. Caution When Replacing IC903 (EEPROM)

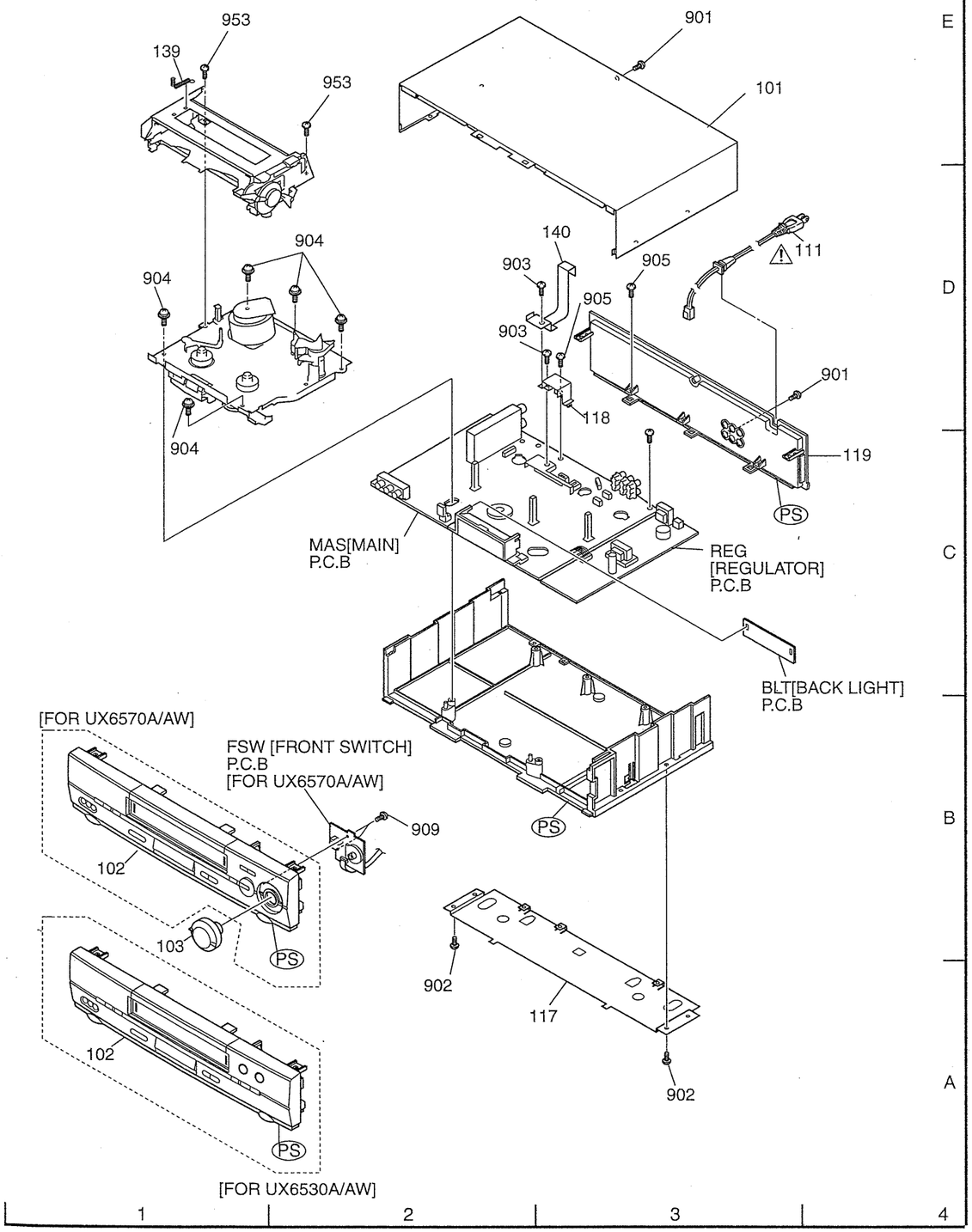
After replacing IC903 (EEPROM), execute the VCR initial settings and then perform the following adjustments.

	Adjustment	Page
1	Vertical jitter adjustment	P3-5
2	Forward slow tracking adjustment	P3-5
3	Reverse slow tracking adjustment	P3-5

CHAPTER 4 EXPLODED VIEW

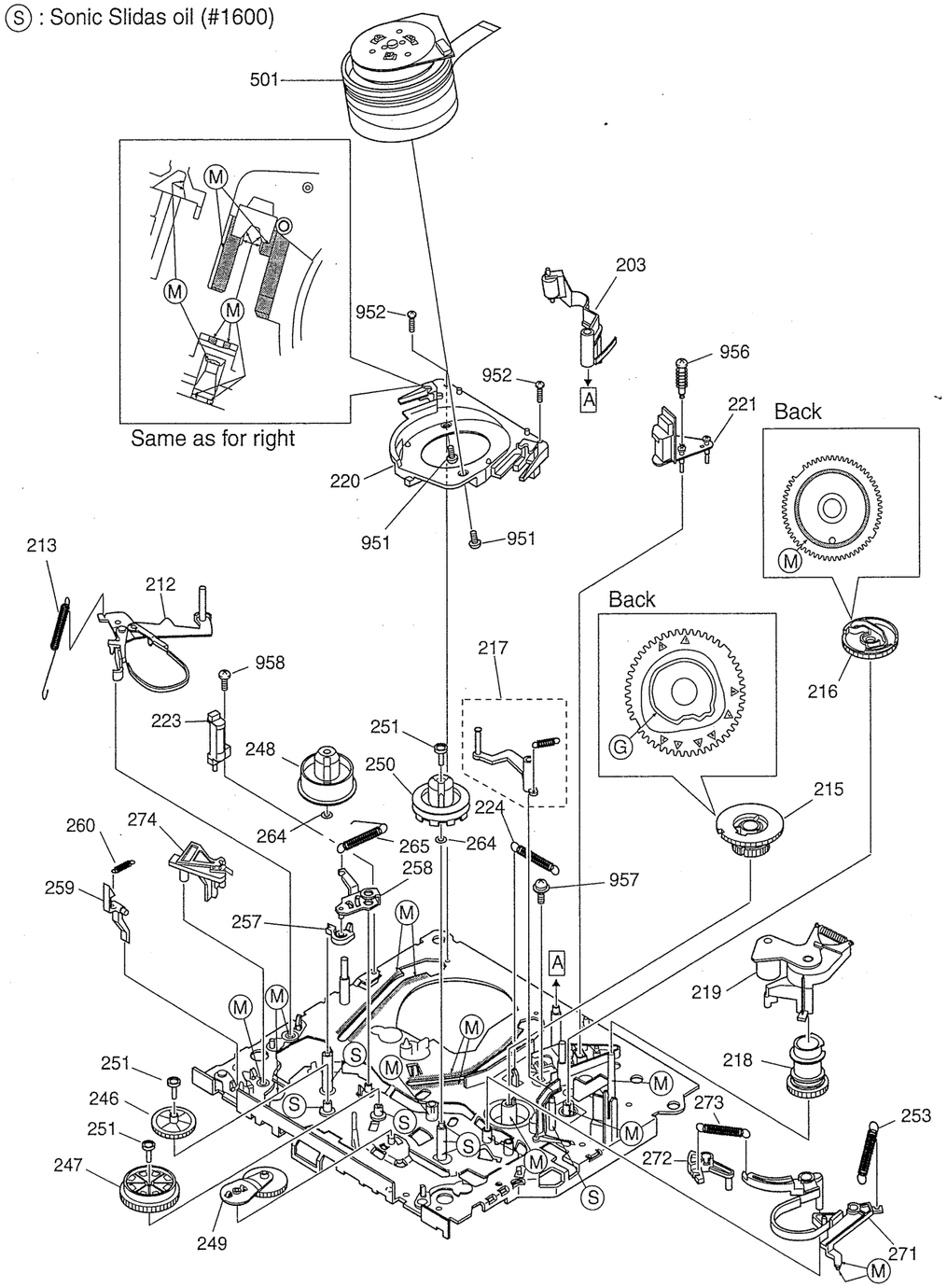
1. CABINET SECTION

NOTE: The synthetic resin members that can be dismantled are shown by abbreviations using letters.



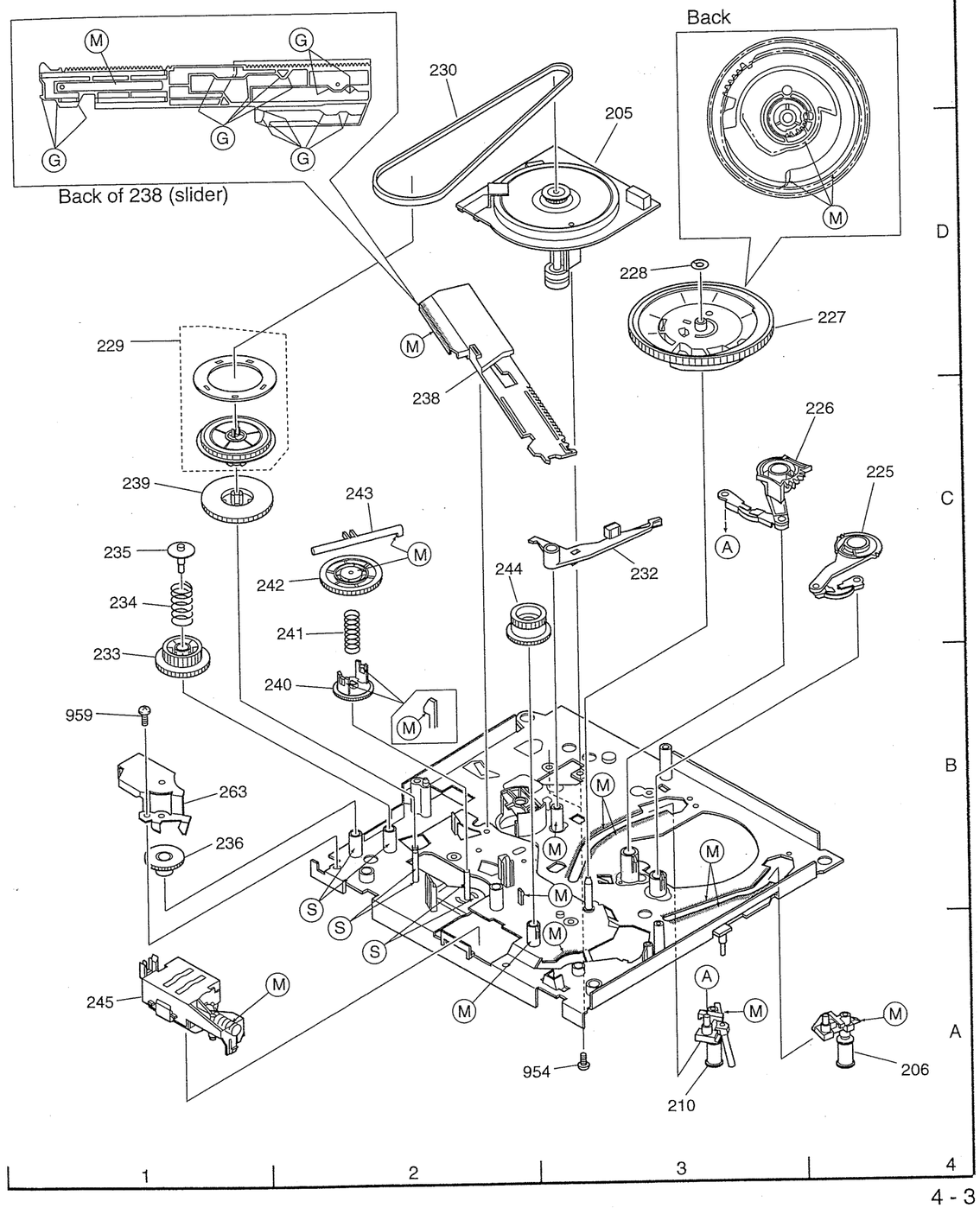
2. U4-MECHANISM (TOP VIEW)SECTION

Ⓖ : Silicone (G-332)
Ⓜ : Molicoat (PG-641)
Ⓢ : Sonic Slidas oil (#1600)



3. U4-MECHANISM (BOTTOM VIEW)SECTION

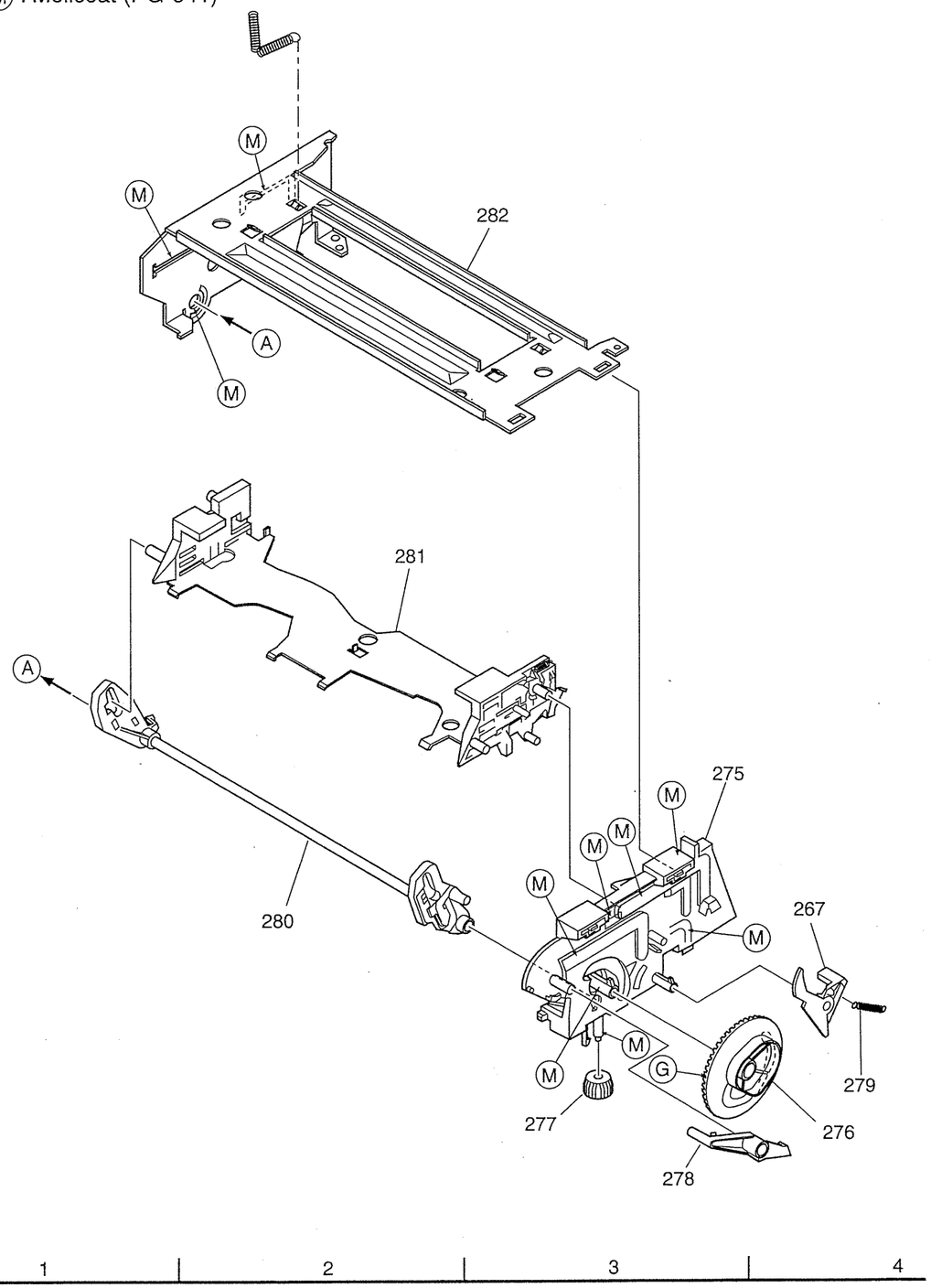
Ⓖ : Silicone (G-332)
Ⓜ : Molicoat (PG-641)
Ⓢ : Sonic Slidas oil (#1600)



4. U4-FL MECHANISM SECTION

Ⓖ : Silicone (G-332)

Ⓜ : Molicoat (PG-641)



CHAPTER 5 REPLACEMENT PARTS LIST

1. MECHANICAL PARTS LIST

SYMBOL NO	P-NO	DESCRIPTION
		MECHANISM SECTION
101	QA13574	COVER,TOP(HEPM)[EXCEPT FOR 6530A]
101	QA13664	COVER,TOP(HEPM)[6530A]
102	PH19551	PANEL,FRONT(HEPM)[6530A/6530AW]
102	PH19553	PANEL,FRONT(HEPM)[6570A/6570AW]
103	QX13973	KNOB,SHUTTLE(HEPM)[6570A/6570AW]
⚠ 111	EV10722	CORD,POWER(HEPM)
117	QA13581	COVER,BOTTOM(HEPM)
118	MD13361	COVER,F(HEPM)
119	PH19531	PANEL,REAR(HEPM)
139	KL10903	SPRING,SUB
140	MD11602	PLATE,EARTH
203	KX11662	HEAD CLEANING MECHA
205	GP10255	MOTOR,CAPSTAN
206	KX12294	BASE,GUIDE ROLLER (I)
210	KX12302	BASE,GUIDE ROLLER(O)
212	KX21521	ARM
213	KL13081	SPRING
215	KF13471	GEAR
216	KF12283	GEAR,IDLER
217	KX12662	ARM,OUT
218	KX11582	SPIRAL
219	KX15602	ARM,PINCH ROLLER
220	KX11451	BASE,CYLINDER
221	KX11944	AC HEAD
223	5423082	FE HEAD
224	KL13361	SPRING
225	KX17881	GEAR,LOADING (L)
226	KX17891	GEAR,LOADING (R)
227	KX21511	GEAR,CAM
228	4344643	WASHER
229	KX17581	PULLEY
230	KX18201	BELT
232	KX12033	BRAKE
233	KF10571	GEAR,CHANGE
234	KL10771	SPRING
235	KX12001	STOPPER,SPRING
236	KF10561	GEAR,IDLER
238	KX21471	SLIDER
239	KF10551	GEAR,TRANS
240	KF10501	GEAR,DRIVE
241	KL13351	SPRING
242	KF10514	GEAR
243	KX11411	ARM,CHANGE
244	KX11371	GEAR
245	KX11893	HOLDER,LM
246	KF10522	GEAR,IDLER
247	KF13801	GEAR,ID
248	KH10153	TABLE,REEL
249	KX11424	ARM,FR
250	KH10401	REEL
251	KX11991	STOPPER
253	KL10782	SPRING,BRAKE
257	KF13401	GEAR,JOG
258	KX21711	ARM,JOG
259	KX11841	ARM,REC
260	6542485	SPRING
263	KX12461	BRACKET,BASE
264	MN11571	WASHER
265	KL13101	SPRING
267	KX11761	ARM,SWITCH
271	KX21431	BAND,TENSION
272	KX21461	ARM
273	KL13071	SPRING
274	KX22471	ARM,SPRING
275	KX11773	BRACKET (R)
276	KF10682	GEAR 1
277	KF10691	GEAR 2
278	KX11753	ARM,DOOR
279	6323723	SPRING
280	KX11931	ARM,DRIVE
281	KX21211	CASSETTE HOLDER ASSY
282	KX21261	BRACKET
501	HX10511	CYLINDER ASSY(CY-U6N3)
901	8699410	SCREW(3X10)
902	MK11861	SCREW(M3X12) (HEPM)
903	MK10271	SCREW(3X12DT)
904	7781132	BT SCREW
905	MK11865	SCREW(HEPM)
906	8671306	SCREW(2.6X6)
907	MK11871	SCREW(HEPM)
908	7784323	SCREW(3X8)
909	8691308	SCREW(2.6X8)
951	8671306	SCREW(2.6X6)
952	0671310	DT SCREW-2.6MMDX10MM
954	8691306	BT SCREW 2.6MM
956	KX12443	SCREW
957	MJ10341	SCREW(M2.6)
958	0671308	DT SCREW-2.6MMDX8MM
959	0671305	DT SCREW-2.6MMDX5MM
		ACCESSARIES
802	EW12191	CORD,RF(HEPM)[6570A/6570AW]
802	EW12191	CORD,RF(HEPM)[6530A/6530AW]
803	HL11281	REMOTE HAND SET(HEPM)[6570A/6570AW]
803	HL11131	REMOTE HAND SET(HEPM)[6530A/6530AW]
804	EY10271	PLUG[6570AW/6530AW]

Note: The model names shown in the parts list are abbreviated as follows in this supplement.
70: VT-UX6570A/AW, 30: VT-UX6530A/AW, A: VT-UX6570A/UX6530A,
AW: VT-UX6570AW/UX6530AW

2. ELECTRICAL PARTS LIST

SYMBOL NO	P-NO	DESCRIPTION
		MAS BOARD
		CAPACITORS
C0201	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0202	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0203	0209949	CERAMIC DISC 390PF+-5% 50V
C0204	0209931	CERAMIC CHIP 12PF+-5% 50V
C0205	0893035	CERAMIC CHIP 2200PF+-10% 50V
C0206	0800178	ELECTROLYTIC 4.7UF 35V
C0207	0893048	CERAMIC CHIP 0.022UF+-10% 50V
C0208	0890047	CERAMIC CAPACITOR 0.047UF+-20%16V(HEPM)
C0209	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0211	0800138	ELECTROLYTIC 47UF 6.3V
C0213	0254458	ELECTROLYTIC 3.3UF+-20% 50V
C0214	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0215	0800138	ELECTROLYTIC 47UF 6.3V
C0216	0209948	CERAMIC CHIP 330PF+-5% 50V
C0217	0209927	CERAMIC CHIP 7.0PF+-0.5% 50V
C0218	0800179	ELECTROLYTIC 10UF 16V
C0219	0890043	CERAMIC DISC 0.01UF+-20% 16V
C0220	0890043	CERAMIC DISC 0.01UF+-20% 16V
C0221	0800112	ELECTROLYTIC 2.2UF 50V
C0222	0893039	CERAMIC CHIP 4700PF+-10% 50V
C0223	0800118	ELECTROLYTIC 4.7UF 35V
C0225	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0226	0893048	CERAMIC CHIP 0.022UF+-10% 50V
C0227	0800107	ELECTROLYTIC 0.47UF 50V
C0228	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0229	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0230	0893002	CERAMIC CHIP 0.033UF+-10% 16V
C0231	0209937	CERAMIC CHIP 39PF+-5% 50V
C0233	0800179	ELECTROLYTIC 10UF 16V
C0234	0800185	ELECTROLYTIC 47UF 6.3V
C0235	0890046	CERAMIC DISC 0.1UF+80-20% 50V
C0236	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0237	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0238	0800176	ELECTROLYTIC 2.2UF 50V
C0239	0800175	ELECTROLYTIC 1.0UF 50V
C0240	0800175	ELECTROLYTIC 1.0UF 50V
C0241	0800175	ELECTROLYTIC 1.0UF 50V
C0242	0800179	ELECTROLYTIC 10UF 16V
C0243	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0244	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0245	0800115	ELECTROLYTIC 3.3UF 50V
C0246	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0249	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0250	0209937	CERAMIC CHIP 39PF+-5% 50V
C0251	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0255	0209943	CERAMIC DISC 120PF+-5% 50V
C0256	0209933	CERAMIC CHIP 18PF+-5% 50V
C0260	AA00951R	CERAMIC CAPACITOR 1.0UF+-10% 16V
C0263	0209939	CERAMIC CHIP 56PF+-5% 50V
C0402	0800117	ELECTROLYTIC 4.7UF 25V
C0403	0800185	ELECTROLYTIC 47UF 6.3V
C0404	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0405	0800117	ELECTROLYTIC 4.7UF 25V
C0406	0893037	CERAMIC CHIP 3300PF+-10% 50V
C0407	0800122	ELECTROLYTIC 10UF 16V
C0408	0800122	ELECTROLYTIC 10UF 16V
C0409	0893031	CERAMIC CHIP 1000PF+-10% 50V
C0410	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0411	0800175	ELECTROLYTIC 1.0UF 50V
C0413	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0414	0800127	ELECTROLYTIC 220UF 10V
C0419	0800117	ELECTROLYTIC 4.7UF 25V
C0420	AN10332R	CAPACITOR 0.027UF+-5% 100V
C0421	0209946	CERAMIC CHIP 220PF+-5% 50V
C0422	0800145	ELECTROLYTIC 100UF 16V
C0424	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0427	0893037	CERAMIC CHIP 3300PF+-10% 50V
C0429	0893048	CERAMIC CHIP 0.022UF+-10% 50V
C0437	0800118	ELECTROLYTIC 4.7UF 35V
C0501	0800122	ELECTROLYTIC 10UF 16V
C0502	0800118	ELECTROLYTIC 4.7UF 35V
C0503	0800118	ELECTROLYTIC 4.7UF 35V
C0504	0800122	ELECTROLYTIC 10UF 16V
C0505	0800122	ELECTROLYTIC 10UF 16V
C0506	0800135	ELECTROLYTIC 33UF 16V
C0507	0800135	ELECTROLYTIC 33UF 16V
C0508	0800144	ELECTROLYTIC 100UF 10V
C0509	0800144	ELECTROLYTIC 100UF 10V
C0510	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0512	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0513	0800139	ELECTROLYITC 47UF 10V
C0514	0800118	ELECTROLYTIC 4.7UF 35V
C0516	0893048	CERAMIC CHIP 0.022UF+-10% 50V
C0517	0893046	CERAMIC CHIP 0.015UF+-10% 50V
C0518	0893062	CERAMIC CHIP 1UF+80-20% 16V
C0519	0893013	CERAMIC CHIP 0.22UF+-10% 16V
C0520	0893046	CERAMIC CHIP 0.015UF+-10% 50V
C0528	0893046	CERAMIC CHIP 0.015UF+-10% 50V
C0529	0800128	ELECTROLYTIC 22UF 16V
C0530	0800179	ELECTROLYTIC 10UF 16V
C0531	0800122	ELECTROLYTIC 10UF 16V
C0532	0800141	ELECTROLYTIC 47UF 16V
C0533	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0601	0893037	CERAMIC CHIP 3300PF+-10% 50V
C0603	0800138	ELECTROLYTIC 47UF 6.3V
C0604	0800138	ELECTROLYTIC 47UF 6.3V
C0605	0893031	CERAMIC CHIP 1000PF+-10% 50V
C0606	0893048	CERAMIC CHIP 0.022UF+-10% 50V
C0607	0800122	ELECTROLYTIC 10UF 16V
C0608	0893038	CERAMIC CHIP 3900PF+-10% 50V
C0609	0800127	ELECTROLYTIC 220UF 10V
C0610	0207441	ELECTROLYTIC 2.2UF 35V
C0611	0893048	CERAMIC CHIP 0.022UF+-10% 50V
C0614	0893031	CERAMIC CHIP 1000PF+-10% 50V
C0615	0800318	ELECTROLYTIC 47UF 25V
C0701	0800138	ELECTROLYTIC 47UF 6.3V
C0702	0893053	CERAMIC CHIP 0.047UF+-10% 50V
C0703	0893053	CERAMIC CHIP 0.047UF+-10% 50V
C0704	0893031	CERAMIC CHIP 1000PF+-10% 50V
C0706	0800315	ELECTROLYTIC 47UF 6.3V
C0710	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0876	0800317	ELECTROLYTIC 47UF 16V
C0878	0800317	ELECTROLYTIC 47UF 16V
C0883	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0884	0800321	CHEMICAL CAPACITOR 47UF 50V(HEPM)
C0887	0800141	ELECTROLYTIC 47UF 16V
C0901	0893053	CERAMIC CHIP 0.047UF+-10% 50V
C0902	0209934	CERAMIC CHIP 22PF+-5% 50V
C0903	0209934	CERAMIC CHIP 22PF+-5% 50V
C0904	0209932	CERAMIC CHIP 15PF+-5% 50V
C0905	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0906	0209933	CERAMIC CHIP 18PF+-5% 50V
C0907	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0908	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0909	0893027	CERAMIC CHIP 0.1UF+-10% 25V

SYMBOL NO	P-NO	DESCRIPTION
C0910	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0911	0893062	CERAMIC CHIP 1UF+80-20% 16V
C0912	0800358	ELECTROLYTIC 1000UF+-20% 6.3V
C0915	0893048	CERAMIC CHIP 0.022UF+-10% 50V
C0916	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0917	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0918	0893048	CERAMIC CHIP 0.022UF+-10% 50V
C0919	0890046	CERAMIC DISC 0.1UF+80-20% 50V
C0920	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0921	0893053	CERAMIC CHIP 0.047UF+-10% 50V
C0922	0893013	CERAMIC CHIP 0.22UF+-10% 16V
C0923	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0924	0800184	ELECTROLYTIC 33UF 25V
C0925	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0926	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0927	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0928	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0929	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0930	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C0933	0893013	CERAMIC CHIP 0.22UF+-10% 16V
C1101	0209945	CERAMIC DISC 180PF+-5% 50V
C1103	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C1104	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C1106	0800185	ELECTROLYTIC 47UF 6.3V
C1107	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C1108	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C1109	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C1111	0893031	CERAMIC CHIP 1000PF+-10% 50V
C1112	0800185	ELECTROLYTIC 47UF 6.3V
C1113	0890046	CERAMIC DISC 0.1UF+80-20% 50V
C1114	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C1115	0890046	CERAMIC DISC 0.1UF+80-20% 50V
C1116	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C1117	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C1118	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C1119	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C1120	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C1121	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C1401	0209935	CERAMIC CHIP 27PF+-5% 50V
C1402	0209935	CERAMIC CHIP 27PF+-5% 50V
C1403	0209950	CERAMIC CHIP 470PF+-5% 50V
C1404	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C1405	0890043	CERAMIC DISC 0.01UF+-20% 16V
C1406	0800175	ELECTROLYTIC 1.0UF 50V
C1407	0800179	ELECTROLYTIC 10UF 16V
C1408	0893062	CERAMIC CHIP 1UF+80-20% 16V
C1410	0893031	CERAMIC CHIP 1000PF+-10% 50V
C1411	0800179	ELECTROLYTIC 10UF 16V
C1413	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C1414	0893039	CERAMIC CHIP 4700PF+-10% 50V
C1415	0209904	CERAMIC DISC 560PF+-5% 50V
C1416	0893053	CERAMIC CHIP 0.047UF+-10% 50V
C1419	0209946	CERAMIC CHIP 220PF+-5% 50V
C1801	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C1802	0254373	CAPACITOR 10UF+-10% 16V(HEPM)
C1803	0800109	ELECTROLYTIC 1.0UF 50V
C1805	0800112	ELECTROLYTIC 2.2UF 50V
C1806	0893013	CERAMIC CHIP 0.22UF+-10% 16V
C1807	0893008	CERAMIC CHIP 0.1UF+-10% 16V
C1808	0893008	CERAMIC CHIP 0.1UF+-10% 16V
C1809	0893091	CERAMIC CHIP 0.022UF+-10% 16V
C1810	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C1811	0800185	ELECTROLYTIC 47UF 6.3V
C1812	0800122	ELECTROLYTIC 10UF 16V
C1813	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C1814	0254372	CAPACITOR 3.3UF+-10% 35V(HEPM)
C1896	0893008	CERAMIC CHIP 0.1UF+-10% 16V
C2101	0893031	CERAMIC CHIP 1000PF+-10% 50V
C2102	0893031	CERAMIC CHIP 1000PF+-10% 50V
C2501	0893037	CERAMIC CHIP 3300PF+-10% 50V
C2502	0893037	CERAMIC CHIP 3300PF+-10% 50V
C2504	0893048	CERAMIC CHIP 0.022UF+-10% 50V
C2507	0800179	ELECTROLYTIC 10UF 16V
C2508	0893037	CERAMIC CHIP 3300PF+-10% 50V
C2509	0800317	ELECTROLYTIC 47UF 16V
C2510	0800351	ELECTROLYTIC 470UF 6.3V
C2513	0800352	ELECTROLYTIC 470UF 10V
C2521	0800317	ELECTROLYTIC 47UF 16V
C2524	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C2536	0893091	CERAMIC CHIP 0.022UF+-10% 16V
C2545	0800179	ELECTROLYTIC 10UF 16V
C2550	0800141	ELECTROLYTIC 47UF 16V
C2551	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C2552	0890008	CERAMIC DISC 10PF+-5% 50V
C2557	0800109	ELECTROLYTIC 1.0UF 50V
C2558	0800109	ELECTROLYTIC 1.0UF 50V
C2559	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C2560	0800122	ELECTROLYTIC 10UF 16V
C2561	0800122	ELECTROLYTIC 10UF 16V
C2575	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C2581	0893031	CERAMIC CHIP 1000PF+-10% 50V
C4301	0207444	ELECTROLYTIC 1.0UF 50V
C4302	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C4305	0800182	ELECTROLYTIC 22UF 16V
C4306	0207458	ELECTROLYTIC 10UF 25V
C4307	0800122	ELECTROLYTIC 10UF 16V
C4308	0893048	CERAMIC CHIP 0.022UF+-10% 50V
C4309	0893027	CERAMIC CHIP 0.1UF+-10% 25V
		RESISTORS
R0201	0700077	CARBON FILM 560KOHM+-5% 1/8W
R0202	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0203	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0204	0103838	RESISTOR CHIP 390 OHM+-5% 0.1W
R0205	0103838	RESISTOR CHIP 390 OHM+-5% 0.1W
R0206	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0208	0103845	CHIP RESISTOR 1.5KOHM+-5% 0.1W
R0209	0700051	CARBON FILM 5.6KOHM+-5% 1/8W
R0210	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R0211	0103835	CHIP RESISTOR 220 OHM+-5% 0.1W
R0213	0103881	CHIP RESISTOR 2.2MOHM+-10% 0.1W
R0215	0103842	CHIP RESISTOR 820 OHM+-5% 0.1W
R0216	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0217	0700059	CARBON FILM 27KOHM+-5% 1/8W
R0218	0103835	CHIP RESISTOR 220 OHM+-5% 0.1W
R0220	0103841	CHIP RESISTOR 680 OHM+-5% 0.1W
R0221	0700068	CARBON FILM 120KOHM+-5% 1/8W
R0402	0103860	CHIP RESISTOR 27KOHM+-5% 0.1W
R0407	0103835	CHIP RESISTOR 220 OHM+-5% 0.1W
R0408	0103861	CHIP RESISTOR 33KOHM+-5% 0.1W
R0409	0700074	CARBON FILM 330KOHM+-5% 1/8W
R0410	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R0413	0103861	CHIP RESISTOR 33KOHM+-5% 0.1W
R0414	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R0418	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0419	0103861	CHIP RESISTOR 33KOHM+-5% 0.1W
R0420	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0421	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0422	0700006	CARBON FILM 2.7 OHM+-5% 1/8W

SYMBOL NO	P-NO	DESCRIPTION
R0423	0700057	CARBON FILM 18KOHM+-5% 1/8W
R0429	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R0430	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0431	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0432	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0434	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R0450	0700081	CARBON FILM 1.0MOHM+-5% 1/8W
R0501	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R0502	0103844	CHIP RESISTOR 1.2KOHM+-5% 0.1W
R0503	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R0504	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R0507	0700047	CARBON FILM 3.3KOHM+-5% 1/8W
R0512	0700063	CARBON FILM 47KOHM+-5% 1/8W
R0513	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R0516	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R0517	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R0522	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R0523	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R0526	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R0527	0700027	CARBON FILM 100 OHM+-5% 1/8W
R0534	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R0601	0700044	CARBON FILM 1.8KOHM+-5% 1/8W
R0602	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0603	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0604	0103837	CHIP RESISTOR 330 OHM+-5% 0.1W
R0605	0103837	CHIP RESISTOR 330 OHM+-5% 0.1W
R0606	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R0607	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R0609	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0610	0700042	CARBON FILM 1.2KOHM+-5% 1/8W
R0613	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0701	0700045	CARBON FILM 2.2KOHM+-5% 1/8W
R0702	0700035	CARBON FILM 390 OHM+-5% 1/8W
R0703	0700047	CARBON FILM 3.3KOHM+-5% 1/8W
R0704	0700048	CARBON FILM 3.9KOHM+-5% 1/8W
R0705	0700037	CARBON FILM 560 OHM+-5% 1/8W
R0706	0700051	CARBON FILM 5.6KOHM+-5% 1/8W
R0707	0103842	CHIP RESISTOR 820 OHM+-5% 0.1W
R0708	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R0709	0700057	CARBON FILM 18KOHM+-5% 1/8W
R0710	0103841	CHIP RESISTOR 680 OHM+-5% 0.1W
R0713	0700032	CARBON FILM 220 OHM+-5% 1/8W
R0714	0700034	CARBON FILM 330 OHM+-5% 1/8W
R0716	0700034	CARBON FILM 330 OHM+-5% 1/8W
R0718	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R0719	0103845	CHIP RESISTOR 1.5KOHM+-5% 0.1W
R0721	0700062	CARBON FILM 39KOHM+-5% 1/8W
R0722	0103846	CHIP RESISTOR 1.8KOHM+-5% 0.1W
R0723	0103846	CHIP RESISTOR 1.8KOHM+-5% 0.1W
R0724	0103846	CHIP RESISTOR 1.8KOHM+-5% 0.1W
R0725	0700044	CARBON FILM 1.8KOHM+-5% 1/8W
R0877	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0878	0700031	CARBON FILM 180 OHM+-5% 1/8W
R0879	0700058	CARBON FILM 22KOHM+-5% 1/8W
R0880	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0881	0700055	CARBON FILM 12KOHM+-5% 1/8W
R0882	0700055	CARBON FILM 12KOHM+-5% 1/8W
R0886	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0887	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R0888	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R0889	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0890	0700046	CARBON FILM 2.7KOHM+-5% 1/8W
R0891	0700046	CARBON FILM 2.7KOHM+-5% 1/8W
R0892	0700054	CARBON FILM 10KOHM+-5% 1/8W
R0893	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W

SYMBOL NO	P-NO	DESCRIPTION
R0894	0700054	CARBON FILM 10KOHM+-5% 1/8W
R0895	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0901	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R0902	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R0903	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R0904	0104111	CHIP RESISTOR 10KOHM+-1% 1/10W
R0905	0700054	CARBON FILM 10KOHM+-5% 1/8W
R0907	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0908	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0910	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0911	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0912	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0913	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0915	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R0918	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R0922	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R0923	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0924	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R0925	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R0930	0103838	RESISTOR CHIP 390 OHM+-5% 0.1W
R0931	0103838	RESISTOR CHIP 390 OHM+-5% 0.1W
R0940	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0943	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R0944	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R0945	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R0947	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R0948	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R0949	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R0951	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R0957	0700037	CARBON FILM 560 OHM+-5% 1/8W
R0958	0700037	CARBON FILM 560 OHM+-5% 1/8W
R0959	0103840	CHIP RESISTOR 560 OHM+-5% 0.1W
R0963	0103849	CHIP RESISTOR 3.3KOHM+-5% 0.1W
R0964	0103849	CHIP RESISTOR 3.3KOHM+-5% 0.1W
R0965	0103837	CHIP RESISTOR 330 OHM+-5% 0.1W
R0966	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R0968	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0969	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0970	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0971	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R0974	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R0975	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R0976	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0977	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0978	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R0979	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R0984	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0986	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R0987	0700054	CARBON FILM 10KOHM+-5% 1/8W
R0994	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R0995	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R1101	0103857	CHIP RESISTOR 15K0HM+-5% 0.1W
R1102	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R1103	0103860	CHIP RESISTOR 27KOHM+-5% 0.1W
R1401	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R1402	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R1403	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R1404	0103848	CHIP RESISTOR 2.7KOHM+-5% 0.1W
R1405	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R1406	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R1407	0103846	CHIP RESISTOR 1.8KOHM+-5% 0.1W
R1408	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R1409	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R1410	0103835	CHIP RESISTOR 220 OHM+-5% 0.1W
R1411	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W

SYMBOL NO	P-NO	DESCRIPTION
R1412	0103839	CHIP RESISTOR 470 OHM+-5% 0.1W
R1413	0700081	CARBON FILM 1.0MOHM+-5% 1/8W
R1414	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R1415	0700027	CARBON FILM 100 OHM+-5% 1/8W
R1416	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R2101	0700059	CARBON FILM 27KOHM+-5% 1/8W
R2102	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R2103	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R2104	0103834	CHIP RESISTOR 180 OHM+-5% 0.1W
R2105	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R2106	0103835	CHIP RESISTOR 220 OHM+-5% 0.1W
R2107	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R2108	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R2109	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R2110	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R2111	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R2112	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R2113	0103841	CHIP RESISTOR 680 OHM+-5% 0.1W
R2114	0103834	CHIP RESISTOR 180 OHM+-5% 0.1W
R2115	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R2116	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R2501	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R2502	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R2503	0101400	CARBON FILM 75 OHM+-5% 1/8W
R2504	0101400	CARBON FILM 75 OHM+-5% 1/8W
R2507	0103844	CHIP RESISTOR 1.2KOHM+-5% 0.1W
R2508	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R2509	0700042	CARBON FILM 1.2KOHM+-5% 1/8W
R2510	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R2511	0103844	CHIP RESISTOR 1.2KOHM+-5% 0.1W
R2512	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R2515	AT10245S	RESISTOR 68 OHM+-5% 2W
R2516	AT10245S	RESISTOR 68 OHM+-5% 2W
R2524	0103849	CHIP RESISTOR 3.3KOHM+-5% 0.1W
R2529	0101400	CARBON FILM 75 OHM+-5% 1/8W
R2534	0103848	CHIP RESISTOR 2.7KOHM+-5% 0.1W
R2542	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R2544	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R2549	0700031	CARBON FILM 180 OHM+-5% 1/8W
R2551	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R2553	0103835	CHIP RESISTOR 220 OHM+-5% 0.1W
R2555	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R2556	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R2557	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R2558	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R2559	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R2560	0700064	CARBON FILM 56KOHM+-5% 1/8W
R2561	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R2852	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R2853	0103855	CHIP RESISTOR 10K0HM+-5% 0.1W
R2854	0101836	CARBON FILM 1.8KOHM+-5% 1/4W
R2855	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R2856	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R4301	0103846	CHIP RESISTOR 1.8KOHM+-5% 0.1W
R4302	0103845	CHIP RESISTOR 1.5KOHM+-5% 0.1W
R4303	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R4304	0103845	CHIP RESISTOR 1.5KOHM+-5% 0.1W
R4306	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R4307	0103846	CHIP RESISTOR 1.8KOHM+-5% 0.1W
R4308	0103845	CHIP RESISTOR 1.5KOHM+-5% 0.1W
R4309	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R4310	0103857	CHIP RESISTOR 15K0HM+-5% 0.1W
R4311	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R4312	0700027	CARBON FILM 100 OHM+-5% 1/8W
R4313	0103841	CHIP RESISTOR 680 OHM+-5% 0.1W

SYMBOL NO	P-NO	DESCRIPTION
R4314	0103841	CHIP RESISTOR 680 OHM+-5% 0.1W
R4315	0103842	CHIP RESISTOR 820 OHM+-5% 0.1W
R4316	0700055	CARBON FILM 12KOHM+-5% 1/8W
R4317	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R4318	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
RF0852	0101725	RESISTOR 2.2 OHM 1/4W
		SEMI-CONDUCTORS
D0401	5339071	DIODE 1SS119
D0865	CH10871M	DIODE 1N4001
D0866	CH10871M	DIODE 1N4001
D0867	CH10871M	DIODE 1N4001
D0868	CH10871M	DIODE 1N4001
D0869	CH10871M	DIODE 1N4001
D0870	CH10871M	DIODE 1N4001
D0871	CH11171M	DIODE AK04
D0872	CH11171M	DIODE AK04
D1101	5339071	DIODE 1SS119
D1401	5339071	DIODE 1SS119
D2505	5339071	DIODE 1SS119
D2506	5339071	DIODE 1SS119
IC0201	CK22531	IC JCP8017NVA(HEPM)
IC0501	CK22541	IC AN3662FBP(HEPM)
IC0701	CK19701	IC LC75833E
IC0901	CK25446	IC M37760MFH2E6GP
IC0902	CP10312R	IC PST9129
IC0903	CP11011	IC AT24C01A(HEPM) [30]
IC0903	CP11012	IC AT24C02-10PC [70]
IC0904	CP10291	IC BA6209
IC0905	CP11361R	IC M5278L05
IC0906	CK14886	IC AT24C64N-10SC(HEPM)
IC0907	CP10313R	IC PST9145
IC0908	CP11012	IC AT24C02
IC2101	CJ10391	SENSOR SG-HT10(T)
IC2102	CJ10401	SENSOR SG-HT11(S)
IC2501	CK13502R	IC NJM2534M
IC4301	1352032	IC NJM2249M
IC4302	CK13503R	IC NJM2535M
LD0701	CH10471R	DIODE SEL6210S
LD0702	CH10471R	DIODE SEL6210S
LD0704	CH10472R	DIODE SEL6410E
LD2101	CH10542	DIODE GL451L1
Q0201	CA11871R	TRANSISTOR PDTC144EK
Q0202	CA11871R	TRANSISTOR PDTC144EK
Q0403	CA10672R	TRANSISTOR 2SD601A
Q0405	CA10582R	TRANSISTOR 2SB709A
Q0406	5323172	TRANSISTOR 2SC1214CD
Q0411	CA10582R	TRANSISTOR 2SB709A
Q0412	CA10672R	TRANSISTOR 2SD601A
Q0413	CA10672R	TRANSISTOR 2SD601A
Q0601	CA11871R	TRANSISTOR PDTC144EK
Q0701	CA11261R	TRANSISTOR DTC124EKA
Q0702	CA11261R	TRANSISTOR DTC124EKA
Q0704	CA11261R	TRANSISTOR DTC124EKA
Q0706	5327261	TRANSISTOR 2SB1326(Q)
Q0707	CA11871R	TRANSISTOR PDTC144EK
Q0852	5327261	TRANSISTOR 2SB1326(Q)
Q0853	5328975	TRANSISTOR 2SC2412K
Q0856	5327141	TRANSISTOR 2SD468C
Q0857	CF11051	TRANSISTOR 2SB1274R1S
Q0858	CF11051	TRANSISTOR 2SB1274R1S
Q0859	5328975	TRANSISTOR 2SC2412K
Q0860	5328975	TRANSISTOR 2SC2412K
Q0863	CA11871R	TRANSISTOR PDTC144EK

SYMBOL NO	P-NO	DESCRIPTION
Q0869	5327021	TRANSISTOR 2SA844CD
Q0901	CA11871R	TRANSISTOR PDTC144EK
Q1401	CA10672R	TRANSISTOR 2SD601A
Q1402	CA10672R	TRANSISTOR 2SD601A
Q1403	CA10582R	TRANSISTOR 2SB709A
Q1404	CA10672R	TRANSISTOR 2SD601A
Q1405	CA10672R	TRANSISTOR 2SD601A
Q2101	CF10372	TRANSISTOR PT493FL1
Q2102	CF10372	TRANSISTOR PT493FL1
Q2103	CA10672R	TRANSISTOR 2SD601A
Q2104	CA10672R	TRANSISTOR 2SD601A
Q2501	CA10672R	TRANSISTOR 2SD601A
Q2502	CA10672R	TRANSISTOR 2SD601A
Q2503	CA10672R	TRANSISTOR 2SD601A
Q2509	CA10672R	TRANSISTOR 2SD601A
Q2510	CA11871R	TRANSISTOR PDTC144EK
Q2511	CF10842R	TRANSISTOR DTA144ESA
Q2513	CA10582R	TRANSISTOR 2SB709A
Q2515	CA10672R	TRANSISTOR 2SD601A
Q2516	CA10672R	TRANSISTOR 2SD601A
Q2517	CA10582R	TRANSISTOR 2SB709A
Q2570	CA11871R	TRANSISTOR PDTC144EK
Q4302	CA10672R	TRANSISTOR 2SD601A
Q4303	CA10582R	TRANSISTOR 2SB709A
Q4304	CA10672R	TRANSISTOR 2SD601A
Q4305	CA10672R	TRANSISTOR 2SD601A
Q4306	CA10672R	TRANSISTOR 2SD601A
⚠QF0851	5721944	IC PROTECTOR,ICP-N25
⚠QF0852	5721945	IC PROTECTOR,ICP-N38
⚠QF0853	5721944	IC PROTECTOR,ICP-N25
⚠QF0854	5721946	IC PROTECTOR,ICP-N15
ZD0853	5339281	DIODE HZS11-A2
ZD0854	5339288	DIODE HZS30-3
ZD0901	5339275	DIODE HZS7-B2
ZD2502	CH10556M	DIODE HZS3C2

TRANSFORMER

T0401	BT10251	TRANSFORMER,POWER

COILS

L0201	5159142	CHOKE COIL 12UH
L0202	BH10466R	COIL 47UH [70]
L0202	BH10468R	COIL 100UH [30]
L0203	5159156	CHOKE COIL 150UH
L0204	5159142	CHOKE COIL 12UH
L0205	BH10468R	COIL 100UH
L0206	5159146	CHOKE COIL 27UH
L0207	5159153	CHOKE COIL 82UH
L0208	BH10468R	COIL 100UH
L0401	BH10468R	COIL 100UH
L0403	BH10468R	COIL 100UH
L0501	BH10468R	COIL 100UH
L0502	BH10468R	COIL 100UH
L0701	BH10468R	COIL 100UH
L1101	BH10468R	COIL 100UH
L1102	BH10468R	COIL 100UH
L1103	5159158	CHOKE COIL 220UH
L1401	5159163	CHOKE COIL
L1801	BH10468R	COIL 100UH
L2501	BH10466R	COIL 47UH
L2502	BH10468R	COIL 100UH
L2508	BH10468R	COIL 100UH

SYMBOL NO	P-NO	DESCRIPTION

CRYSTALS

X0201	BP10532	CRYSTAL (HEPM)
X0901	BP10575	CRYSTAL
X0902	BP10771	CRYSTAL(HEPM)

MISCELLANEOUS

BL1401	5274522	CORE
BL2503	5274522	CORE
BL2504	5274522	CORE
BL2505	5272378	LC FILTER
BL2506	5274522	CORE
FE2501	HC10375	TUNER IF UNIT(HEPM)
JK2501	ES10343	JACK
JK2503	ES10372	JACK
IR0701	CJ10413	CRYSTAL
LCD0701	DB10732	DISPLAY(HEPM)
PG0401	5819706	CONNECTOR(HEPM)
PG0402	ED11581	PLUG
PG0601	ED10882	PLUG
PG0602	ED11582	CONNECTOR(HEPM)
PG0701	5819707	CONNECTOR
PG0871	ED11293	PLUG
PG0871	ED11294	CONNECTOR
PG0901	ED10881	PLUG
PG1101	ED11542	CONNECTOR(HEPM)
PG2508	5668185	MINI PLUG
S0701	FE10432	SWITCH(HEPM)
S0702	FE10432	SWITCH(HEPM)
S0703	FE10432	SWITCH(HEPM)
S0704	FE10432	SWITCH(HEPM)
S0705	FE10432	SWITCH(HEPM)
S0706	FE10432	SWITCH(HEPM)
S0709	5636101	SWITCH
S2101	FD10211	SWITCH,MODE
S2102	5635631	SWITCH
S2103	5635631	SWITCH

REG BOARD

CAPACITORS

⚠C0851	AN10501S	CAPACITOR 0.1UF+-20% 250V
⚠C0852	AJ10293	CERAMIC CAPACITOR 2200PF+-20% 125V
⚠C0853	AJ10293	CERAMIC CAPACITOR 2200PF+-20% 125V
C0854	AL11131	CAPACITOR 82UF+-20% 400V [A]
C0854	AL11132	CAPACITOR 82UF+-20% 200V [AW]
C0855	AN10401R	CAPACITOR 0.047UF+-10% 250V
C0857	AL01147R	CHIP CAPACITOR 47UF+-20% 35V
C0858	AJ10249R	CAPACITOR 470PF+-10% 50V
C0859	AJ10249R	CAPACITOR 470PF+-10% 50V
C0860	1143004	CERAMIC CAPACITOR 470PF+-10% 1KV
C0861	AN00628R	CAPACITOR 0.22UF+-10% 50V
C0862	AL10481S	ELECTROLYTIC 3300UF 16V [70]
C0862	AL10483S	ELECTROLYTIC 2200UF+-20% 16V(HEPM)[30]
C0863	0800352	ELECTROLYTIC 470UF 10V
C0864	AL10486S	CAPASITOR 330UF+-20% 35V
C0865	0800337	CHIP CAPACITOR 22UF+-20% 35V
C0866	1143005	CERAMIC CAPACITOR 220PF+-5% 1KV
C0867	AL01174R	CHIP CAPACITOR 22UF+-20% 63V
C0868	AL10482S	ELECTROLYTIC 820UF+-20% 25V(HEPM)
C0869	0800337	CHIP CAPACITOR 220UF+-20% 35V
C0870	AL10486S	CAPASITOR 330UF+-20% 35V
C0871	0800319	ELECTROLYTIC 47UF 35V

SYMBOL NO	P-NO	DESCRIPTION
C0872	AN00624R	CAPACITOR 0.01UF+-10% 50V
C0876	025406	CERAMIC DISC 470PF+-10% 2KV

RESISTORS

⚠R0851	AT10401M	RESISTOR 4.7MOHM+-10% 1/2W
R0852	AT10261S	RESISTOR 220KOHM+-5% 2W
R0854	0116671	RESISTOR 100KOHM+-5% 3W
R0855	0700026	CARBON FILM 82 OHM+-5% 1/8W
R0856	0700005	CARBON FILM 2.2 OHM+-5% 1/8W
R0857	0700045	CARBON FILM 2.2KOHM+-5% 1/8W
R0858	0700038	CARBON FILM 680 OHM+-5% 1/8W
R0859	AT10246S	RESISTOR 0.33 OHM+-5% 1W
R0860	0700047	CARBON FILM 3.3KOHM+-5% 1/8W
R0861	0700038	CARBON FILM 680 OHM+-5% 1/8W
R0862	0700067	CARBON FILM 100KOHM+-5% 1/8W
R0863	0700036	CARBON FILM 470 OHM+-5% 1/8W
R0864	0700032	CARBON FILM 220 OHM+-5% 1/8W
R0865	0101738	METAL FILM 3.3KOHM+-1% 1/8W
R0866	0700061	CARBON FILM 33KOHM+-5% 1/8W
R0867	0101761	RESISTOR 2.7KOHM 1/8W
R0869	AT10211M	RESISTOR 1MOHM 1/2W
R0870	AT10211M	RESISTOR 1MOHM 1/2W
R0871	0116671	RESISTOR 100KOHM+-5% 3w
R0872	0700047	CARBON FILM 3.3KOHM+-5% 1/8W
R0873	0700037	CARBON FILM 560 OHM+-5% 1/8W
R0875	0700067	CARBON FILM 100KOHM+-5% 1/8W
R2851	0700065	CARBON FILM 68KOHM+-5% 1/8W
R2855	AT10245S	RESISTOR 68 OHM+-5% 2W
R2857	0700047	CARBON FILM 3.3KOHM+-5% 1/8W
R3702	0700029	CARBON FILM 150 OHM+-5% 1/8W
R3703	0700043	CARBON FILM 1.5KOHM+-5% 1/8W
R3704	0700032	CARBON FILM 220 OHM+-5% 1/8W
R3705	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R3706	0700027	CARBON FILM 100 OHM+-5% 1/8W
R3707	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R3708	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R3709	0700039	CARBON FILM 820 OHM+-5% 1/8W
R3710	0700041	CARBON FILM 1.0KOHM+-5% 1/8W

SEMI-CONDUCTORS

⚠D0851	5336552	DIODE S1WBA60	
D0852	CH10191M	DIODE EG01C-T	
D0853	CH10482M	DIODE AG01	[AW]
D0853	CH10921M	DIODE PR1003L	[A]
D0854	CH10482M	DIODE AG01	[AW]
D0854	CH10921M	DIODE PR1003L	[A]
D0855	5339071	DIODE 1SS119	
D0856	5339071	DIODE 1SS119	
D0857	5339071	DIODE 1SS119	
D0858B	1331362	DIODE RK36	[A]
D0858B	CH11541S	DIODE RK39	[AW]
D0859	CH10772S	DIODE RN2Z	[A]
D0859	CH11531S	DIODE RL2	[AW]
D0860	CH10482M	DIODE AG01	[A]
D0860	CH10483M	DIODE AG01A	[AW]
D0861	CH10772S	DIODE RN2Z	[A]
D0861	CH11531S	DIODE RL2	[AW]
D0862	CH10772S	DIODE RN2Z	[A]
D0862	CH11531S	DIODE RL2	[AW]
IC0851	CP12722F	IC STR-G6653	[AW]
IC0851	CP12723F	IC STR-G6632	[A]
IC0852	CP11961R	IC HA17431PA	
⚠PC0851	CF10952	TRANSISTOR LTV-817M	

SYMBOL NO	P-NO	DESCRIPTION
⚠PC0852	CF10952	TRANSISTOR LTV-817M
Q0851	CF10852R	TRANSISTOR DTC144ESA
ZD0852	0700047	CARBON FILM 3.3KOHM+-5% 1/8W
ZD0855	5339288	DIODE HZS30-3
ZD0856	CH10961M	ZUNER DIODE MA7180-A

TRANSFORMER

⚠T0851	BT10513	TRANSISTOR,POWER

COILS

⚠L0851	BJ10251	FILTER,LC
L0852	BH00201R	COIL 10UH
L0853	BH10337R	COIL 10UH
L0854	BH10339R	COIL 22UH
L0855	BH10337R	COIL 10UH

MISCELLANEOUS

BL0851	BZ10471R	CORE	
BL0853	5274522	CORE	
BL0854	BZ10471R	CORE	
BL0855	BZ10471R	CORE	
BL0856	BZ10471R	CORE	
BL0857	BZ10471R	CORE	
BL0858	BZ10471R	CORE	
BL0859	BZ10471R	CORE	
⚠F0851	FN10201	FUSE 003A	
FH0851	5722413	HOLDER,FUSE (HEPM)	
FH0852	5722413	HOLDER,FUSE (HEPM)	
PG0851	ED10111	CONNECTOR	
PG0852	ED11303	CONNECTOR	[30]
PG0852	ED11304	CONNECTOR	[70]
PG0853	ED12353	PLUG	[70]
S3704	FE10432	SWITCH(HEPM)	
S3705	FE10432	SWITCH(HEPM)	
S3706	FE10432	SWITCH(HEPM)	
S3707	FE10432	SWITCH(HEPM)	

BLT BOARD

RESISTORS

R1701	0700029	CARBON FILM 150 OHM+-5% 1/8W	[30]
R1701	0700034	CARBON FILM 330 OHM+-5% 1/8W	[70]
R1702	0700029	CARBON FILM 150 OHM+-5% 1/8W	[30]
R1702	0700034	CARBON FILM 330 OHM+-5% 1/8W	[70]
R1703	0700029	CARBON FILM 150 OHM+-5% 1/8W	[30]
R1703	0700034	CARBON FILM 330 OHM+-5% 1/8W	[70]
R1704	0700029	CARBON FILM 150 OHM+-5% 1/8W	[30]
R1704	0700034	CARBON FILM 330 OHM+-5% 1/8W	[70]
R1705	0700036	CARBON FILM 470 OHM+-5% 1/8W	
R1706	0700036	CARBON FILM 470 OHM+-5% 1/8W	
R1707	0700036	CARBON FILM 470 OHM+-5% 1/8W	
R1708	0700036	CARBON FILM 470 OHM+-5% 1/8W	
R1709	0700052	CARBON FILM 6.8KOHM+-5% 1/8W	
R1710	0700054	CARBON FILM 10KOHM+-5% 1/8W	
R1711	0700052	CARBON FILM 6.8KOHM+-5% 1/8W	

SEMI-CONDUCTORS

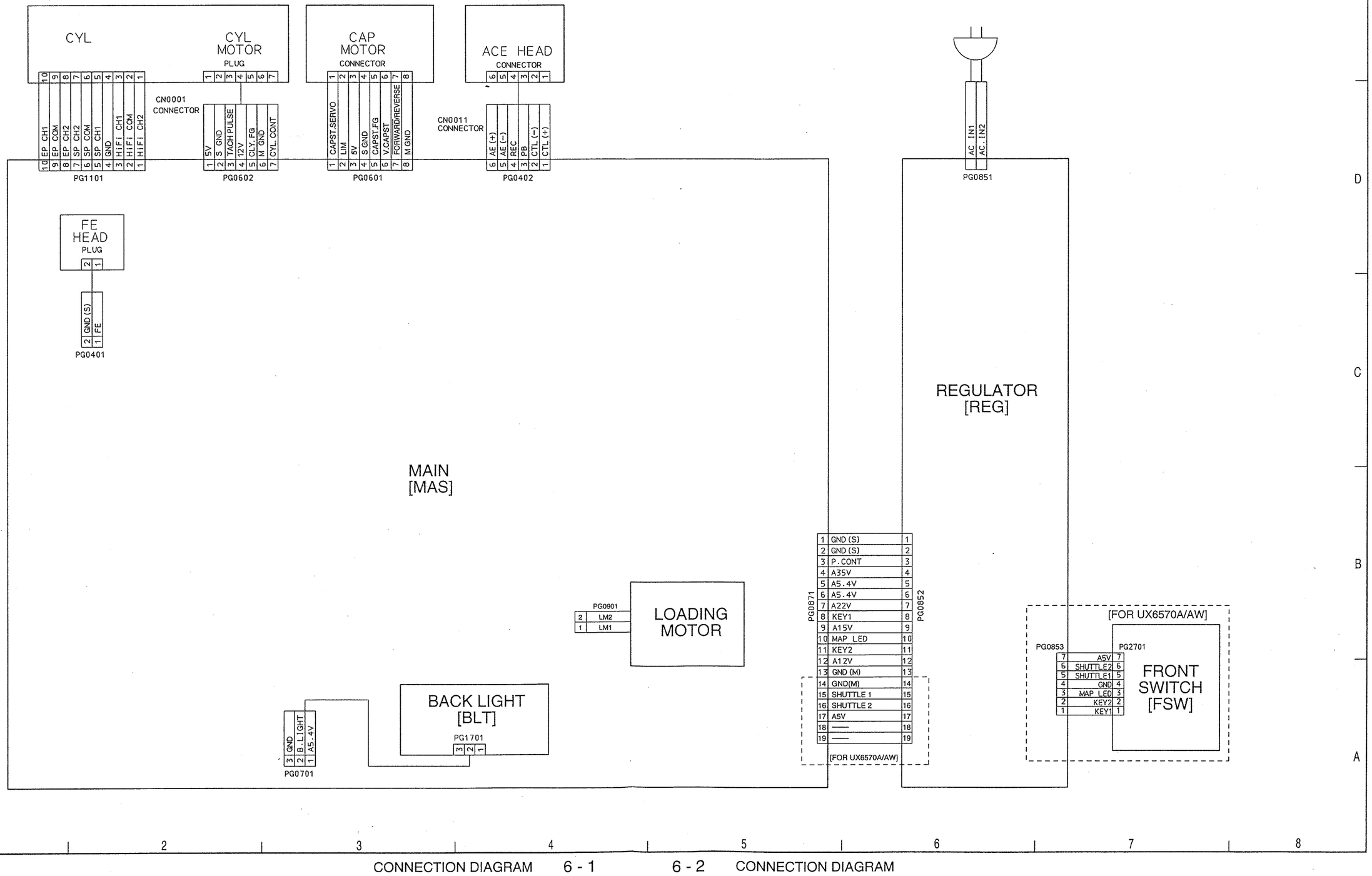
D1701	CH11471M	DIODE AM01Z	
Q1701	5327063	TRANSISTOR 2SC1740S	[70]
Q1701	CF10851R	TRANSISTOR DTC124ESA(HEPM)	[30]

SYMBOL NO	P-NO	DESCRIPTION
Q1702	CF10851R	TRANSISTOR DTC124ESA(HEPM)
Q1703	CF10851R	TRANSISTOR DTC124ESA(HEPM)
Q1704	CF10851R	TRANSISTOR DTC124ESA(HEPM)
LD1701	CH10783R	DIODE SLP3117E-51HS
LD1702	CH10783R	DIODE SLP3117E-51HS
LD1703	CH10783R	DIODE SLP3117E-51HS
LD1704	CH10783R	DIODE SLP3117E-51HS
		MISCELLANEOUS
LMP1701	DP10226	LIGHT,BACK(HEPM)
LMP1702	DP10226	LIGHT,BACK(HEPM)
LMP1703	DP10226	LIGHT,BACK(HEPM)
PG1701	5666562	MINI PLUG
		FSW BOARD [FOR VT-UX6570A/AW]
		RESISTORS
R2701	0700057	CARBON FILM 18KOHM+-5% 1/8W
R2702	0700054	CARBON FILM 10KOHM+-5% 1/8W
R2703	0700057	CARBON FILM 18KOHM+-5% 1/8W
R2704	0700054	CARBON FILM 10KOHM+-5% 1/8W
R2706	0700029	CARBON FILM 150 OHM+-5% 1/8W
R2707	0700043	CARBON FILM 1.5KOHM+-5% 1/8W
R2708	0700032	CARBON FILM 220 OHM+-5% 1/8W
R2709	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R2710	0700027	CARBON FILM 100 OHM+-5% 1/8W
R2711	0700046	CARBON FILM 2.7KOHM+-5% 1/8W
R2712	0700028	CARBON FILM 120 OHM+-5% 1/8W
R2713	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R2731	0700034	CARBON FILM 330 OHM+-5% 1/8W
R2732	0700034	CARBON FILM 330 OHM+-5% 1/8W
R2733	0700034	CARBON FILM 330 OHM+-5% 1/8W
R2734	0700058	CARBON FILM 22KOHM+-5% 1/8W
		SEMI-CONDUCTORS
LD2702	CH10472R	DIODE SEL6410E
LD2703	CH10472R	DIODE SEL6410E
LD2704	CH10472R	DIODE SEL6410E
Q2703	5327063	TRANSISTOR 2SC1740S
		MISCELLANEOUS
PG2701	ED12353	PLUG
S2701	FE10431	SWITCH(HEPM)
S2702	FE10431	SWITCH(HEPM)
S2703	FE10431	SWITCH(HEPM)
S2704	FE10431	SWITCH(HEPM)
S2705	FE10431	SWITCH(HEPM)
S2721	FH10271	SWITCH

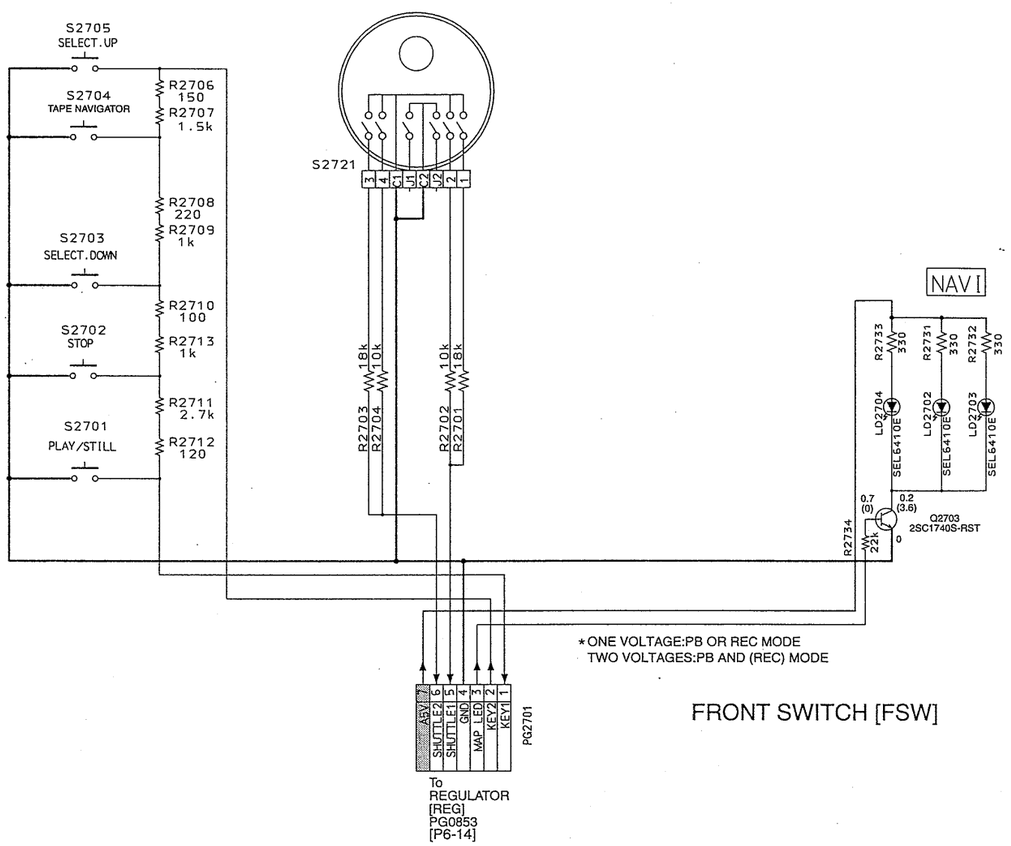
SYMBOL NO	P-NO	DESCRIPTION

CHAPTER 6 SCHEMATIC, CIRCUIT BOARD AND BLOCK DIAGRAMS/MICROPROCESSOR PIN FUNCTION TABLE

CONNECTION DIAGRAM

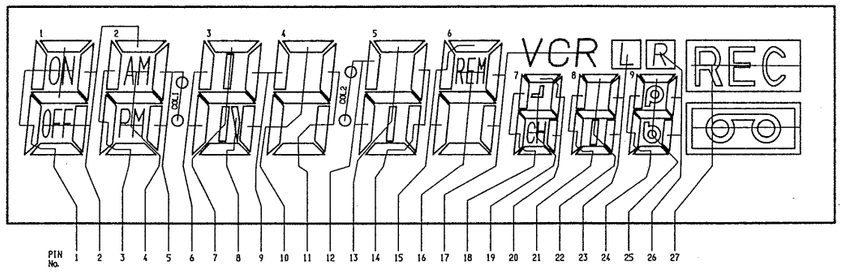


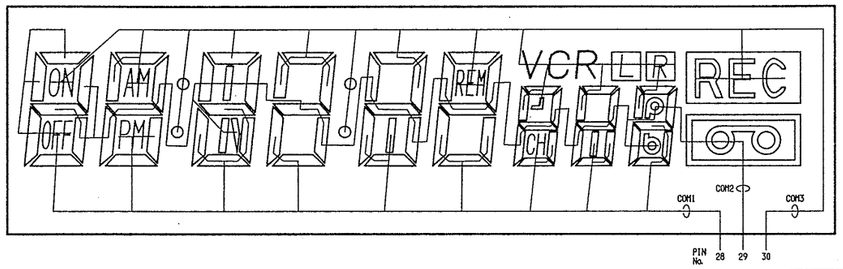
FRONT SWITCH [FSW] SCHEMATIC DIAGRAM [FOR VT-UX6570A/AW]



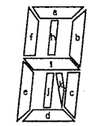
FRONT SWITCH [FSW]

LCD GRID TABLE

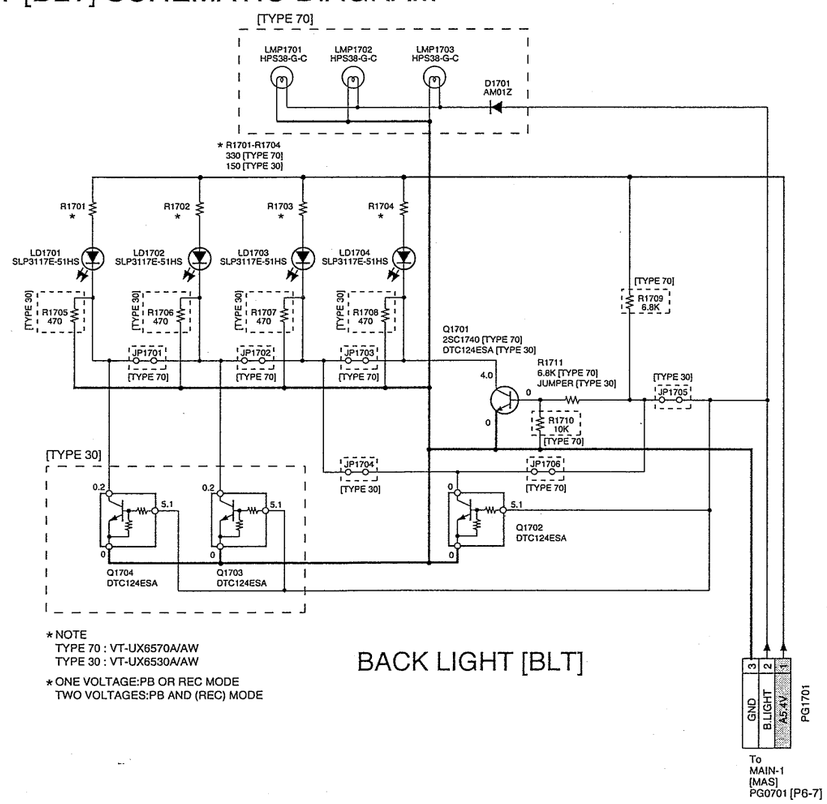




PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
COM1	1a&e	OFF	2d	PM	2c	3e	3g	3d	3c	4e	4d	5e	5j	5d	6e	6d	6c	7d	CH	7c	8d	8j	8c	9d	9g	9c	—	COM	—	—
COM2	1g	1bc	2e	2g	2b	3f	3hj	3k	3b	4g	4c	5f	5g	5c	6f	6g	6b	7e	7g	7b	8e	8g	8b	9e	P b	9b	CM	—	COM	—
COM3	ON	2a	2f	AM	COL1	—	3a	—	4f	4a	4b	COL2	5a	5b	6a	REM	VCR	7f	⊿	7a	8f	8a	L	9f	9a	R	REC	—	—	COM



BACK LIGHT [BLT] SCHEMATIC DIAGRAM

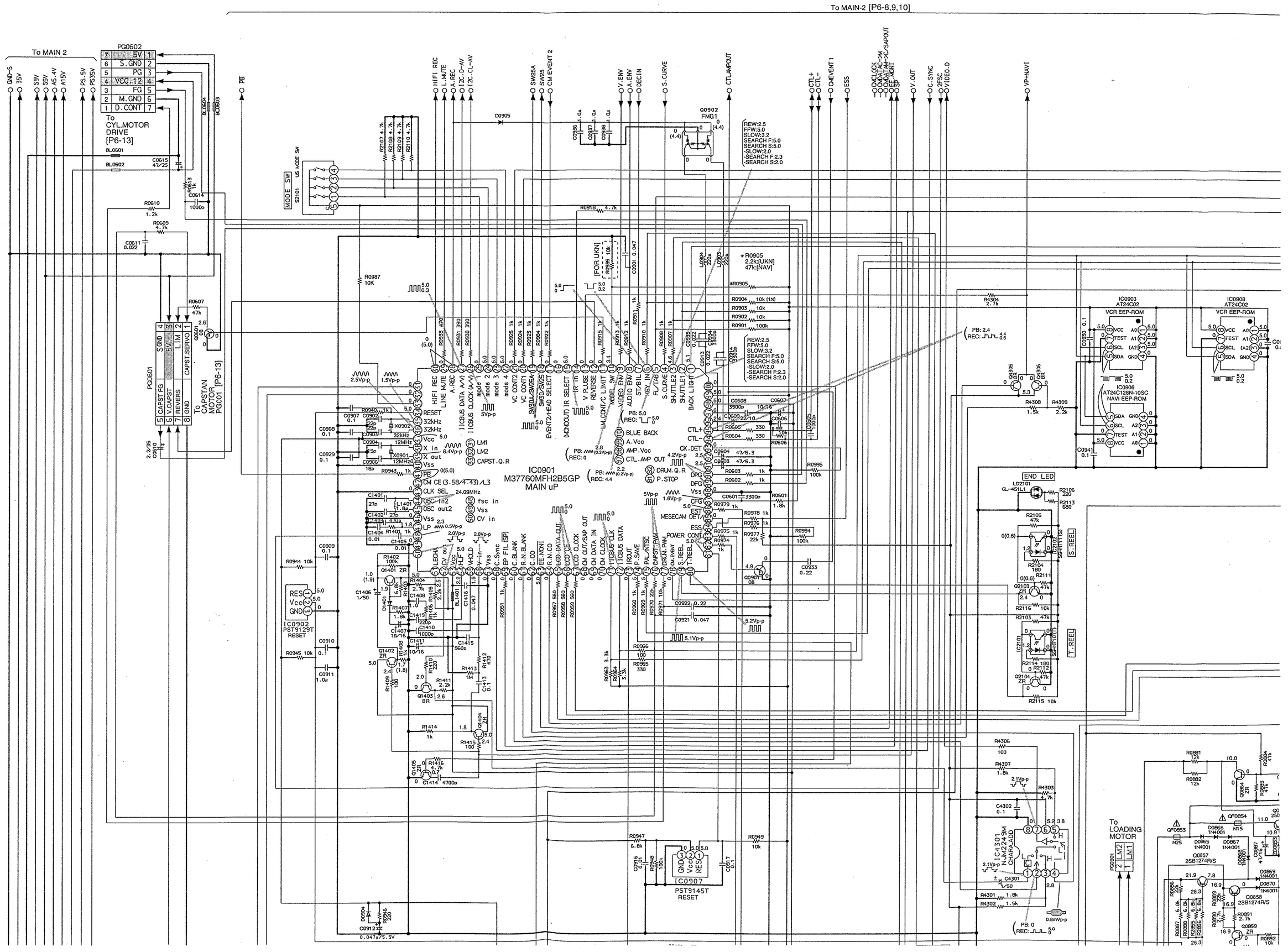


*NOTE
TYPE 70 : VT-UX6570A/AW
TYPE 30 : VT-UX6530A/AW

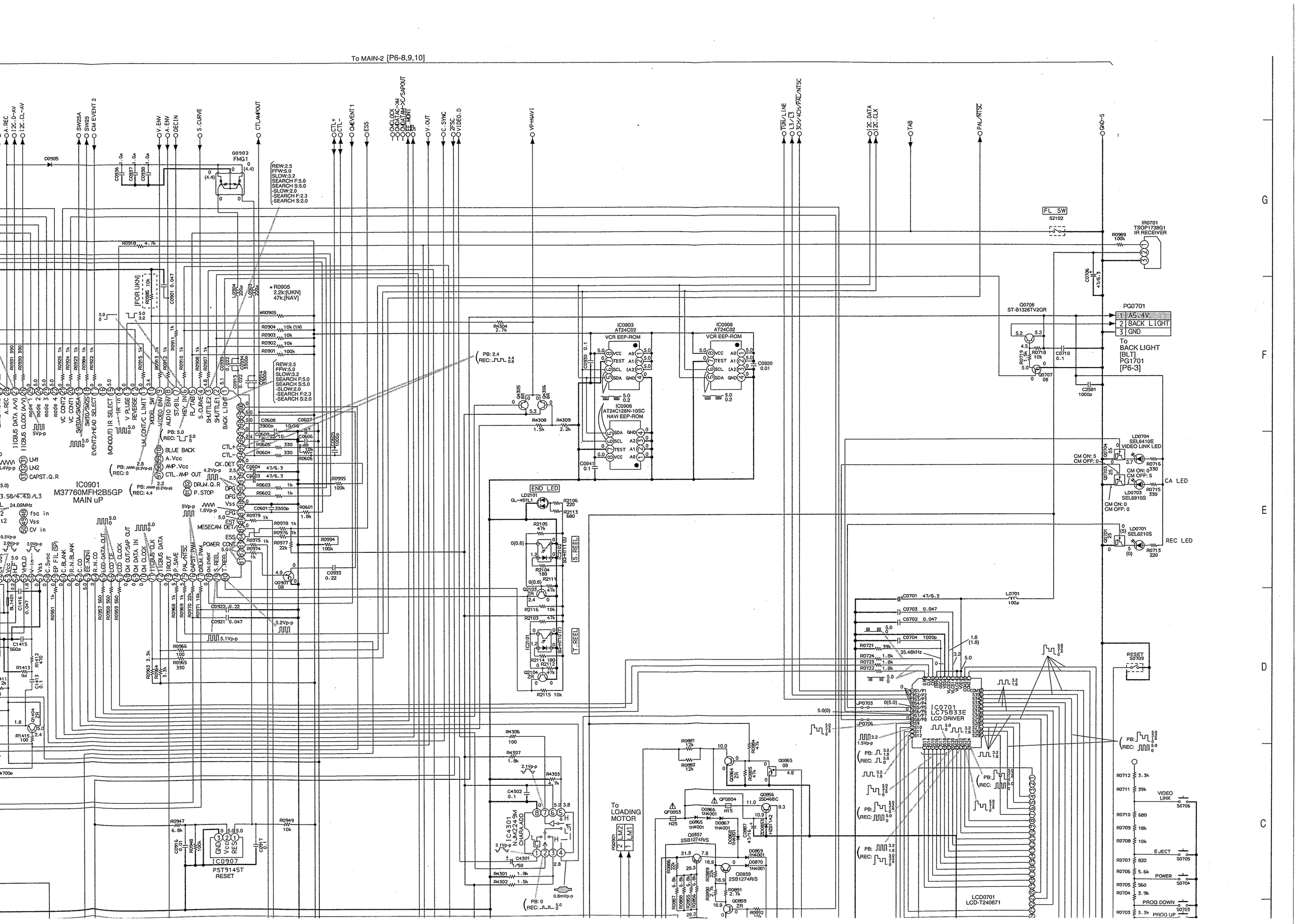
*ONE VOLTAGE:PB OR REC MODE
TWO VOLTAGES:PB AND (REC) MODE

BACK LIGHT [BLT]

MAIN-1 [MAS] SCHEMATIC DIAGRAM



To MAIN-2 [P6-8,9,10]


IC0901
M37760MFH2B5GP
MAIN uP
IC0907
PST9145T
RESET
IC0903
AT24C02
VCR EEP-ROM
IC0908
AT24C02
VCR EEP-ROM
IC0906
AT24C128N-10SC
NAVI EEP-ROM
IC4301
NJM2249M
CHARA.ADD
IC0701
LC75833E
LCD DRIVER
LCD0701
LCD-T240671
Q0902
FMG1
Q0706
ST-B1326TV2QR
Q0901
Q0865
Q0856
2SD468C
Q0857
2SB1274R/S
Q0858
2SB1274R/S
Q0859
IR0701
TSOP1738G1
IR RECEIVER
PG0701
1 A5.4V
2 BACK LIGHT
3 GND
To
BACK LIGHT
[BLT]
PG1701
[P6-3]
LD0704
SEL6410E
VIDEO LINK LED
CA LED
REC LED
LD0703
SEL6910S
LD0701
SEL6210S
FL SW
S2102
RESET
S0709
VIDEO
LINK
S0706
EJECT
S0705
POWER
S0704
PROG DOWN
S0703
PROG UP
END LED
LD2101
QL-451L1
S. REEL
T. REEL
To
LOADING
MOTOR
[FOR UKN]
*R0905
2.2k:[UKN]
47k:[NAV]
REW:2.5
FFW:5.0
SLOW:3.2
SEARCH F:5.0
SEARCH S:5.0
-SLOW:2.0
-SEARCH F:2.3
-SEARCH S:2.0
CM ON: 5
CM OFF: 0
CM ON: 0
CM OFF: 5
35.48kHz
A.REC
I2C.D-AV
I2C.CL-AV
SW25A
SW25
CM EVENT 2
V.ENV
A.ENV
DEC.IN
S.CURVE
CTL-A-OUT
CTL+
CTL-
CM EVENT 1
ESS
CM CLOCK
CM DATA
SSP
V.OUT
C.SYNC
2FSC
VIDEO.D
VP+NAVI
TUN/LINE
L3/L3
3CH/4CH/PAL/NTSC
I2C.DATA
I2C.CLK
TAB
PAL/NTSC
GND-S
I2CBUS DATA A/V
I2CBUS CLOCK A/V
VC CONT2
VC CONT1
SW30/SW25
SW30/SW25
EVENT2/HEAD SELECT
(MONOCOUT) IR SELECT
V PULSE
REVERSE
LM CONT/C LIMIT
MODEL SW
VIDEO ENV
AUDIO ENV
ST/BILL
KEY_IN
FL/TAB
S.CURVE
SHUTTLE2
SHUTTLE1
BACK LIGHT
BLUE BACK
A.Vcc
AMP.Vcc
CTL. AMP OUT
DRUM.Q.R
P.STOP
CK.DET
MESECAM DET
ESS
POWER CONT
LM1
LM2
CAPST.Q.R
fsc in
Vss
CV in
24.09MHz
C.Sync
EP FIL (SP)
C.BLANK
R.N.BLANK
C.CO
EE.MONI
R.N.CO
LCD DATA OUT
LCD CE
LCD CLOCK
CM OUT/SAP OUT
CM DATA IN
CM CLOCK
I2CBUS CLK
I2CBUS DATA
IROUT
P.SAVE
PAL/NTSC
CAPST.PWM
DRUM.PWM
S.REEL
T.REEL
CAPST.FG
DRUM.FG
PB: 5.0
REC: 5.0
PB: 2.4
REC: 4.4
PB: 0
REC: 5.0
PB: 2.8
REC: 0
PB: 2.2
REC: 4.4
5Vp-p
4.2Vp-p
1.6Vp-p
5.2Vp-p
5.1Vp-p
2.1Vp-p
0.8mVp-p
1.5Vp-p
R0905
R0904
R0903
R0902
R0901
R0918
R4304
R4308
R4309
R4306
R4307
R4303
R4301
R4302
R0947
R0949
R0995
R0989
R0721
R0724
R0723
R0722
R0718
R0719
R0881
R0882
R0885
R0886
R0887
R0888
R0889
R0890
R0891
R0892
R2105
R2104
R2111
R2116
R2103
R2114
R2112
R2115
R2106
R2113
R0966
R0965
R0963
R0964
C0901
C0902
C0903
C0904
C0905
C0906
C0907
C0908
C0909
C0910
C0911
C0912
C0913
C0914
C0915
C0916
C0917
C0921
C0922
C0933
C0936
C0937
C0938
C0941
C0350
C0920
C0710
C2581
C0706
C0701
C0703
C0702
C0704
C4302
C4301
C1415
C1416
C1413
C1412
C0707
C0708
C0709
C0710
C0711
C0712
C0713
C0714
C0715
C0716
C0717
C0718
C0719
C0720
C0721
C0722
C0723
C0724
C0725
C0726
C0727
C0728
C0729
C0730
C0731
C0732
C0733
C0734
C0735
C0736
C0737
C0738
C0739
C0740
C0741
C0742
C0743
C0744
C0745
C0746

IC0901
M37760MFH2B5GP
MAIN uP

IC0902
PST9129T
RESET

IC0907
PST9145T
RESET

IC0906
AT24C128N-10SC
NAVI EEP-ROM

IC0905
M5278L05-T
REG 5V

IC4301
NJM2249M
CHARA.ADD

L.MOTOR DRIVER
IC0904
TOA-B4209

To CAPSTAN MOTOR [PG-13]

To LOADING MOTOR

To REGULATOR[REG] PG0852 [P6-18]

* ONE VOLTAGE:PB OR REC MODE
TWO VOLTAGES:PB AND (REC) MODE
NON MARKED DIODES 1SS119

CODE	PART NAME
BR,BQ	2SB709A
ZR	2PD601AR
25	DTC124EKA
08	PDTC144EK

IC0901
M37760MFH2B5GP
MAIN uP

IC0907
PST9145T
RESET

IC0905
M5278L-05-T
REG 5V

IC0906
AT24C128N-10SC
NAVI EEP-ROM

IC0701
LC75833E
LCD DRIVER

LCD0701
LCD-T240671

IC4301
NJM2249M
CHARA.ADD

IC0904
TOA-B46209
L.MOTOR DRIVER

END LED
LD2101
GL-451L1

S-REEL
T-REEL

To
LOADING
MOTOR
PG0901

To
REGULATOR[REG]
PG0852
[P6-18]

PG0871

To
BACK LIGHT
[BLT]
PG1701
[P6-3]

LD0704
SEL6410E
VIDEO LINK LED

LD0703
SEL6910S
CA LED

LD0701
SEL6210S
REC LED

RESET
S0709

VIDEO
LINK
S0706

EJECT
S0705

POWER
S0704

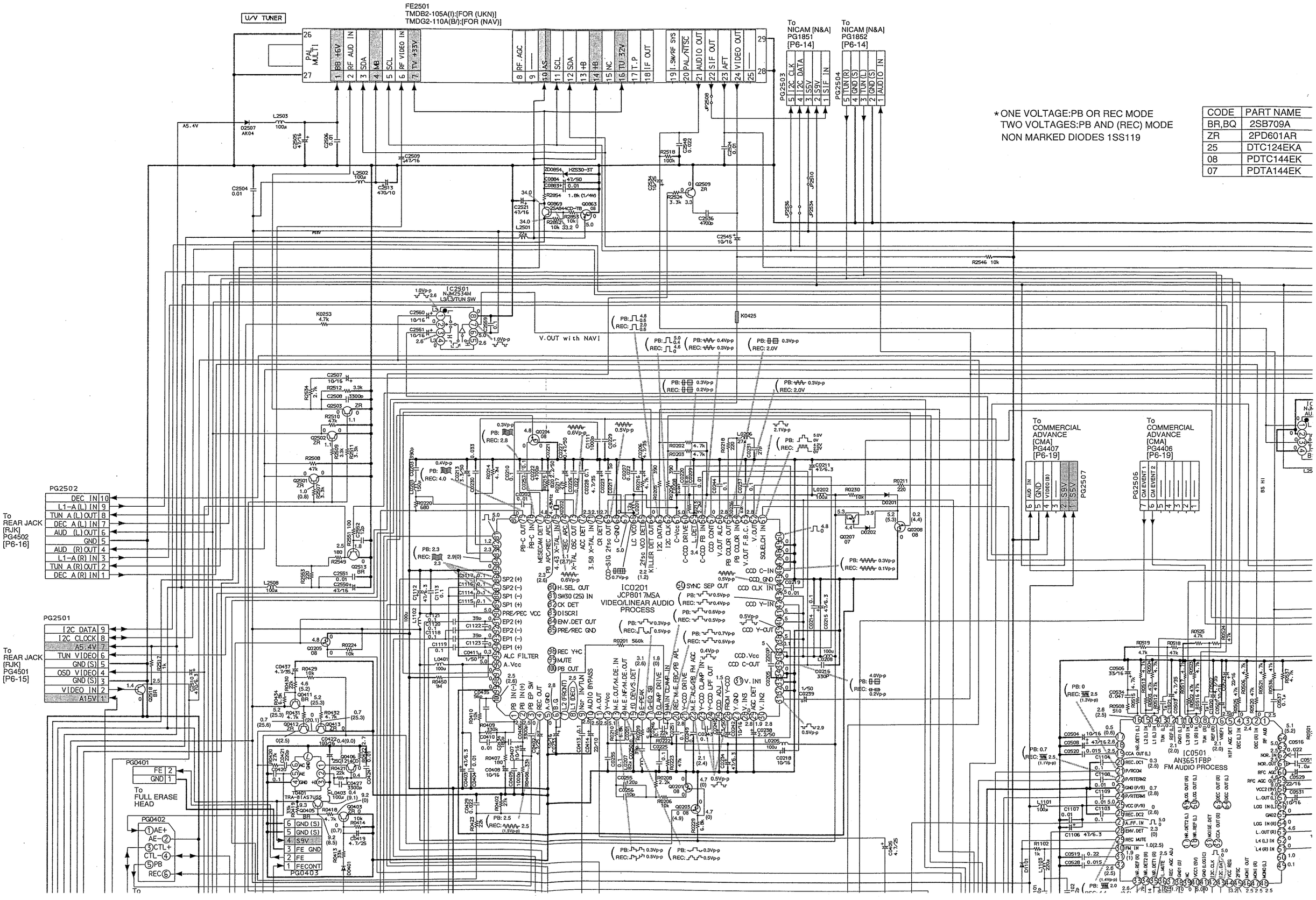
PROG DOWN
S0703

PROG UP
S0702

REC/IRT
S0701

MAIN-1 [MAS]

MAIN-2 [MAS] SCHEMATIC DIAGRAM



CODE	PART NAME
BR,BQ	2SB709A
ZR	2PD601AR
25	DTC124EKA
08	PDTC144EK
07	PDTA144EK

To NICAM [N&A] PG1851 [P6-14]

To NICAM [N&A] PG1852 [P6-14]

PG2503: 5 I2C CLK, 4 I2C DATA, 3 SSV, 2 SSV, 1 S.I.F. IN

PG2504: 5 TUN (R), 4 GND (S), 3 TUN (L), 2 GND (S), 1 AUDIO IN

29: 19 I. SW/RF SYS, 20 PAL/NTSC, 21 AUDIO OUT, 22 S.I.F. OUT, 23 AFT, 24 VIDEO OUT, 25 —

28: 9 —, 10 AS, 11 SCL, 12 SDA, 13 +B, 14 +B, 15 NC, 16 TU 32V, 17 T.P, 18 I.F. OUT

* ONE VOLTAGE:PB OR REC MODE
TWO VOLTAGES:PB AND (REC) MODE
NON MARKED DIODES 1SS119

CODE	PART NAME
BR,BQ	2SB709A
ZR	2PD601AR
25	DTC124EKA
08	PDTC144EK
07	PDTA144EK

JK2503: 1 VIDEO, 6 AUD (L), 9 AUD (R)

L2

IC0201 JCP8017MSA VIDEO/LINEAR AUDIO PROCESS

IC0501 AN3651FBP FM AUDIO PROCESS

IC2504 NJM2254M AUDIO SW

IC4302 NJM2535M MONI SELECT

To COMMERCIAL ADVANCE [CMA] PG4407 [P6-19]

PG2507: 6 AUD IN, 5 GND, 4 VIDEO (8), 3 —, 2 S9V, 1 S5V

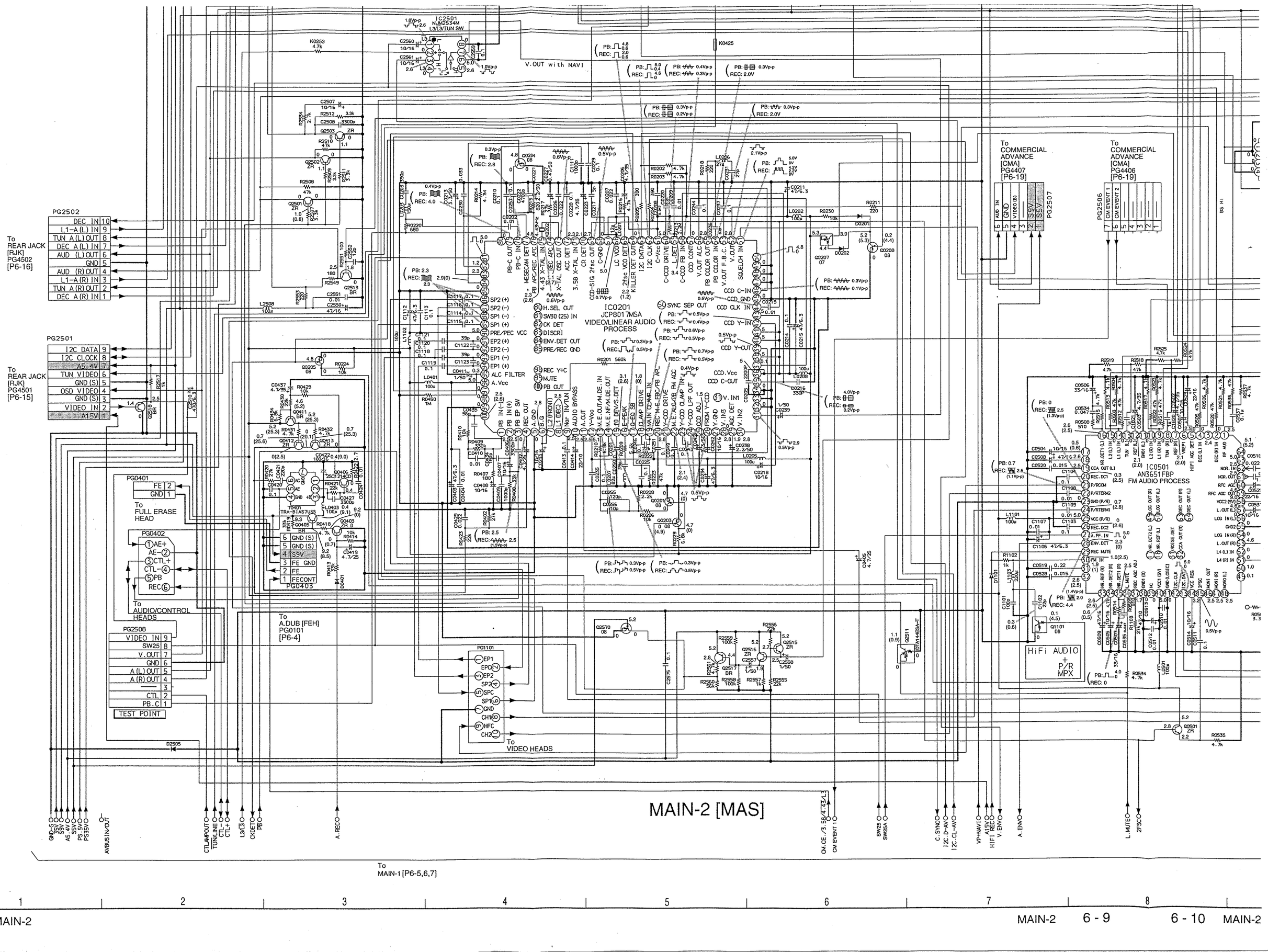
To COMMERCIAL ADVANCE [CMA] PG4406 [P6-19]

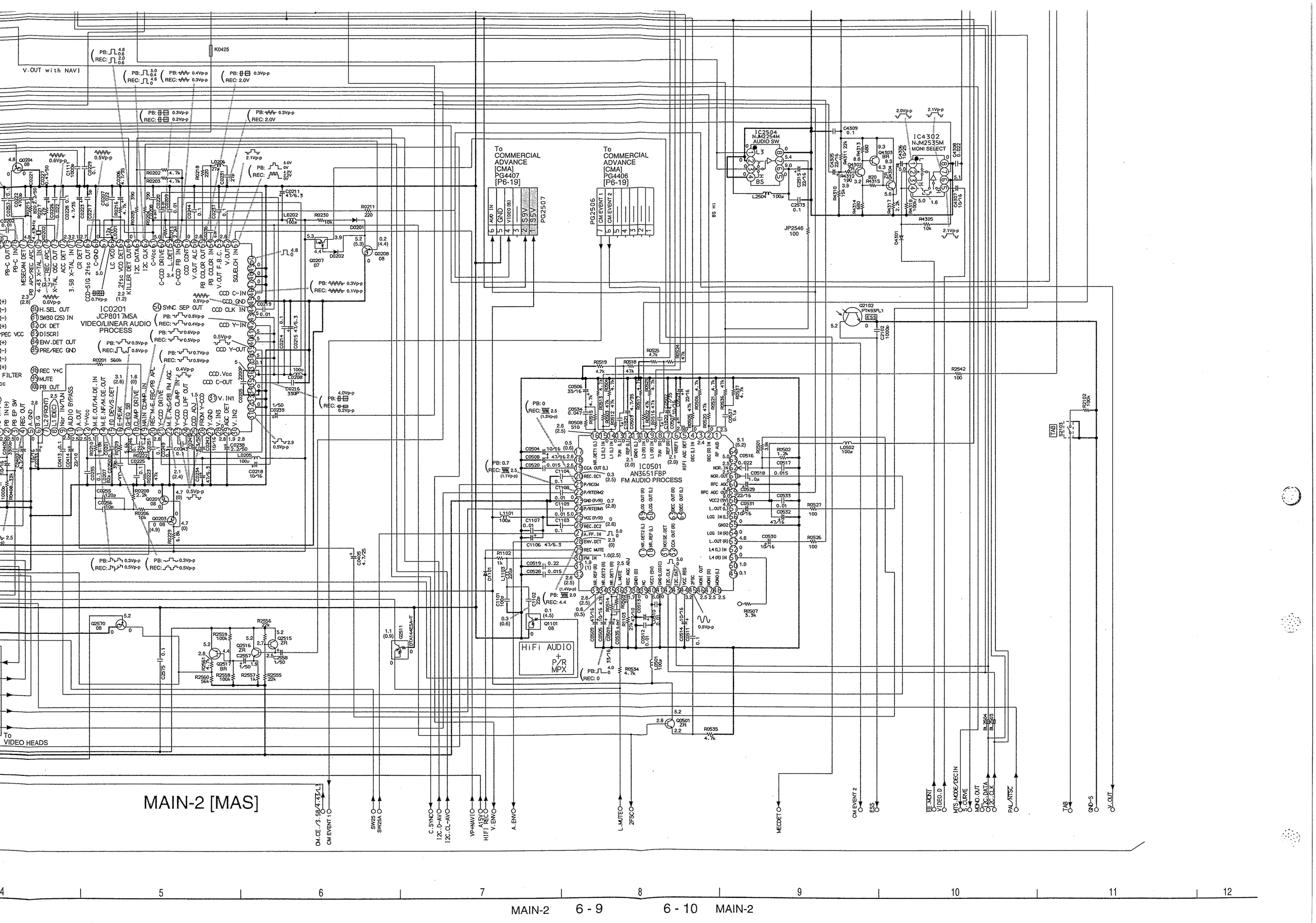
PG2506: 7 CM EVENT 1, 6 CM EVENT 2, 5 —, 4 —, 3 —, 2 —, 1 —

V.OUT with NAVI

Q2102 PT4939FL1 ESS

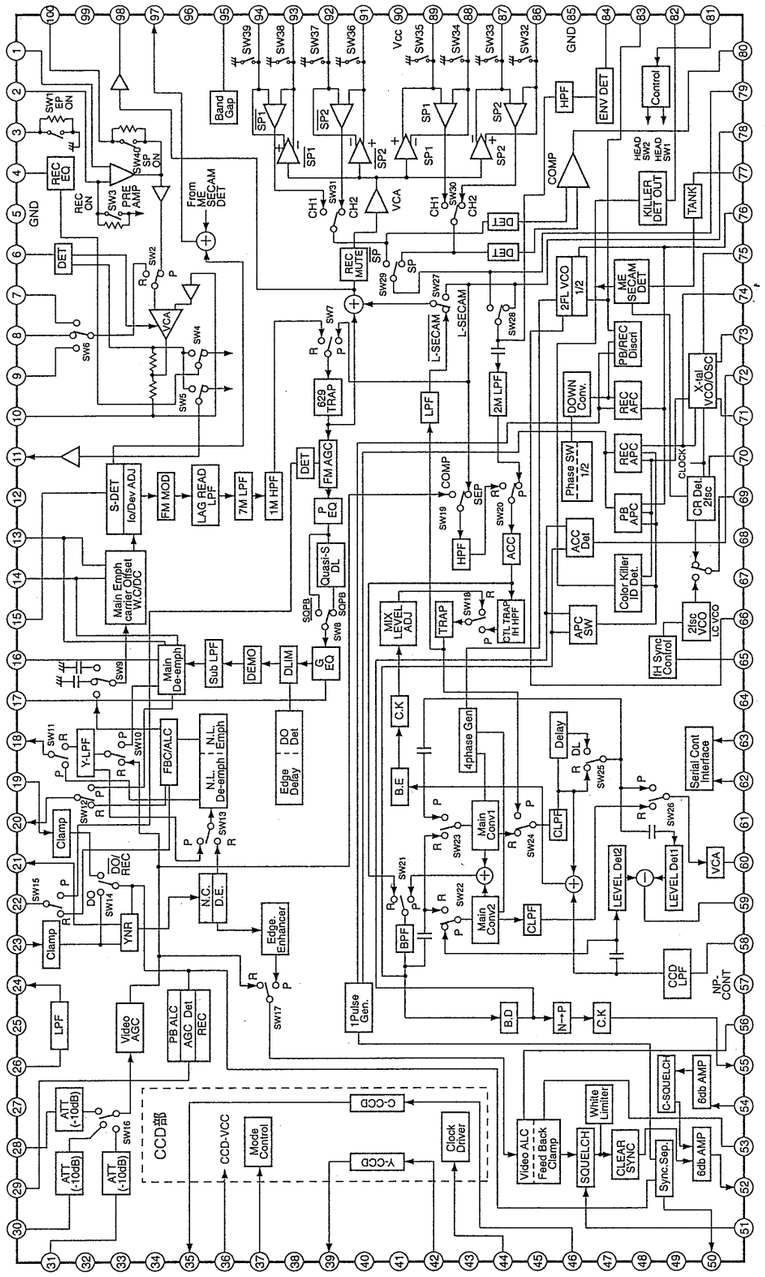
TAB S2103


IC2501
LA2534M
L3/L3'TUN SW
V.OUT with NAVI
K0253
4.7k
K0425
PG2502
DEC IN 10
L1-A(L) IN 9
TUN A(L) OUT 8
DEC A(L) IN 7
AUD (L) OUT 6
GND 5
AUD (R) OUT 4
L1-A(R) IN 3
TUN A(R) OUT 2
DEC A(R) IN 1
To REAR JACK [RJK] PG4502 [P6-16]
PG2501
I2C DATA 9
I2C CLOCK 8
A5.4V 7
TUN VIDEO 6
GND (S) 5
OSD VIDEO 4
GND (S) 3
VIDEO IN 2
A15V 1
To REAR JACK [RJK] PG4501 [P6-15]
PG0401
FE 2
GND 1
To FULL ERASE HEAD
PG0402
AE+ 2
AE- 3
CTL+ 4
PB 5
REC 6
To AUDIO/CONTROL HEADS
PG0403
6 GND (S)
5 GND (S)
4 SSV
3 FE GND
2 FE
1 FECONT
To A.DUB [FEH] PG0101 [P6-4]
PG2508
VIDEO IN 9
SW25 8
V.OUT 7
GND 6
A(L) OUT 5
A(R) OUT 4
3
CTL 2
PB.C 1
TEST POINT
PG1101
EP1
EPC
EP2
SP2
SPC
SP1
GND
CH1
HFC
CH2
To VIDEO HEADS
IC0201
JCP8017MSA
VIDEO/LINEAR AUDIO PROCESS
IC0501
AN3651FBP
FM AUDIO PROCESS
HiFi AUDIO + P/R MPX
To COMMERCIAL ADVANCE [CMA] PG4407 [P6-19]
To COMMERCIAL ADVANCE [CMA] PG4406 [P6-19]
PG2507
PG2506
To MAIN-1 [P6-5,6,7]
MAIN-2 [MAS]
GND-5
35V
35V
A5.4V
A5.4V
PS.5V
PS.5V
PS35V
AVBUS IN/OUT
CTLAMP OUT
TUN/LINE
CTL-
CTL+
L3/L3'
CKDET
PB
A.REC
OM-CE /3.58/4.43/CL3
CM EVENT 1
SW25
SW25A
C.SYNC
I2C.D-AVO
I2C.CL-AVO
VP-NAVI
A15V
HIFI REC
V.ENV
A.ENV
L.MUTE
2FSC

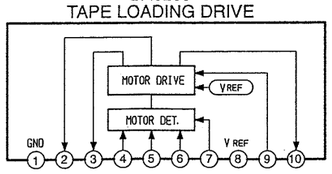

IC0201
JCP8017MSA
VIDEO/LINEAR AUDIO PROCESS
IC0501
AN3651FBP
FM AUDIO PROCESS
IC2504
NJM2564M
AUDIO SW
IC4302
NJM2535M
MONI SELECT
To COMMERCIAL ADVANCE [CMA] PG4407 [P6-19]
To COMMERCIAL ADVANCE [CMA] PG4406 [P6-19]
PG2507
PG2506
V.OUT with NAVI
To VIDEO HEADS
HiFi AUDIO + P/R MPX
MAIN-2 [MAS]
CM.CE./3.58/4.43/CLK
CM.EVENT 1
SW25
SW25A
C.SYNC
I2C.D-AVO
I2C.CL-AVO
VP+NAVI
A15VO
HIFI REC
V.ENVO
A.ENVO
L.MUTEO
2FSCO
MEDET O
CM.EVENT 2
ESS
FE-MONT
VIDEO.D
MTS.MODE/DEC IN
S.CURVE
MONO.OUT
I2C.DATA
I2C.CLK
PAL/NTSC
TAB
GND-S
V.OUT

IC BLOCK DIAGRAM

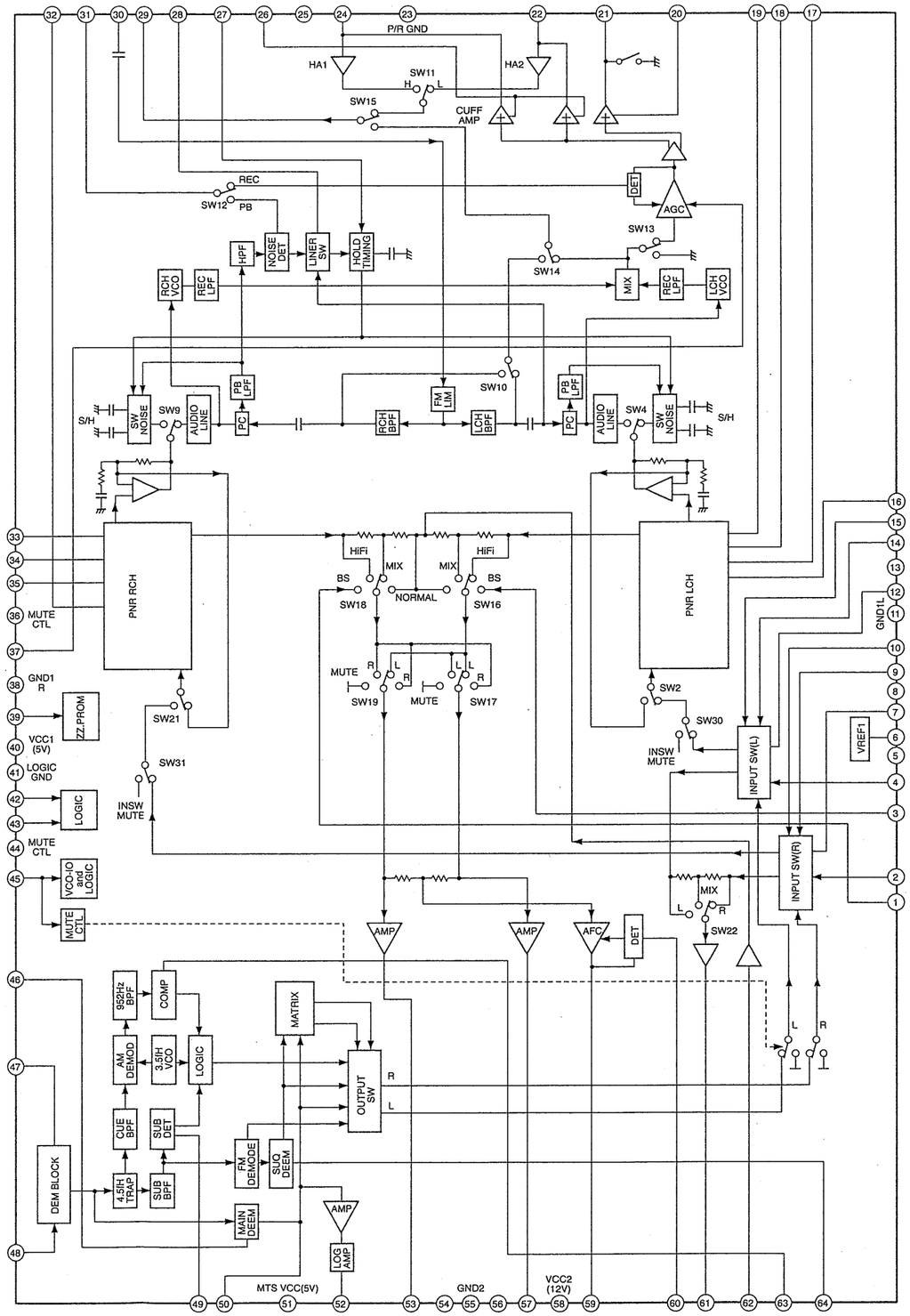
IC0201
JCP8017MVA
VIDEO PROCESS



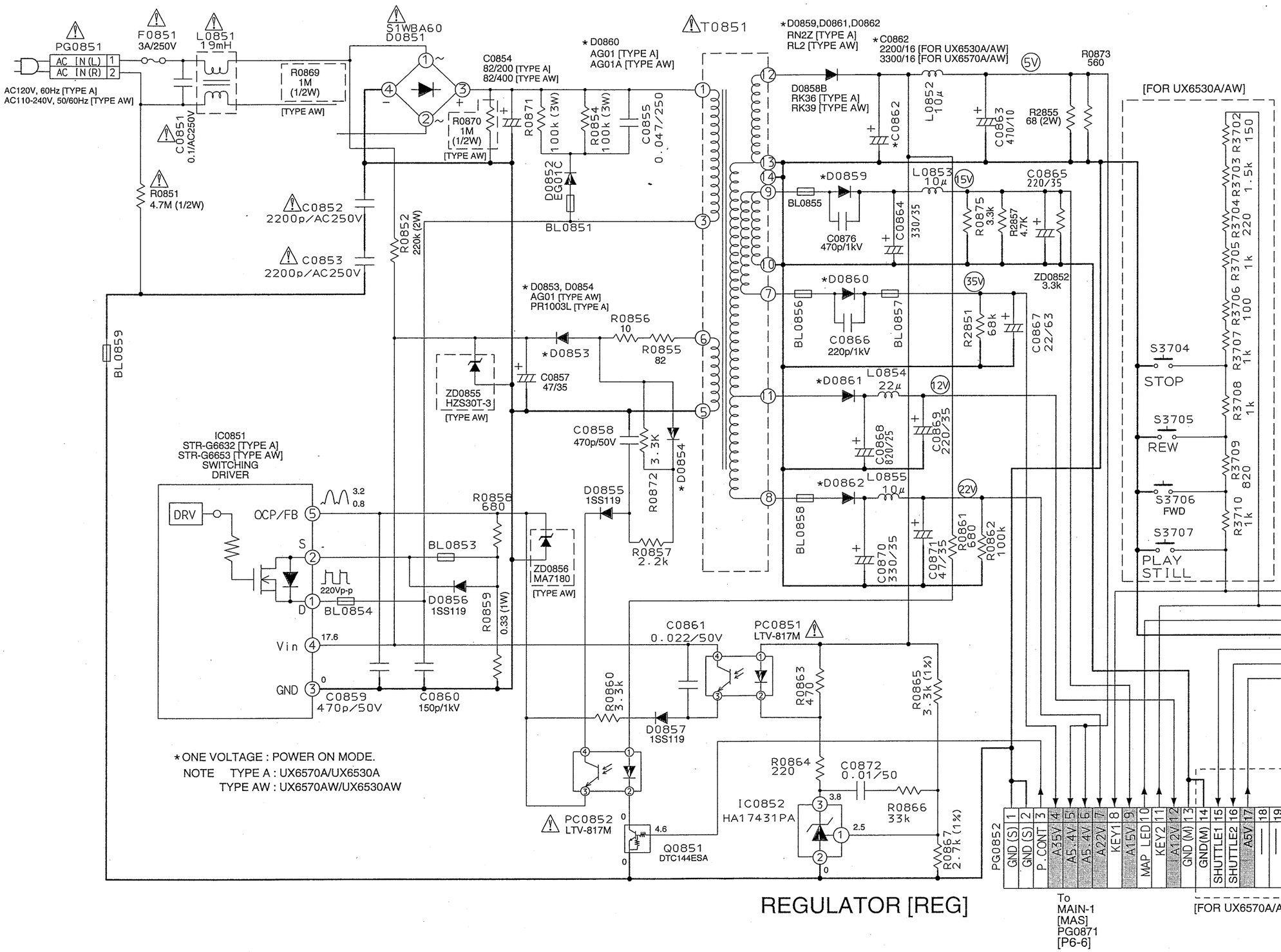
IC0904
BA6209
TAPE LOADING DRIVE



IC0501(AN3662FBP)
FM AUDIO PROCESS

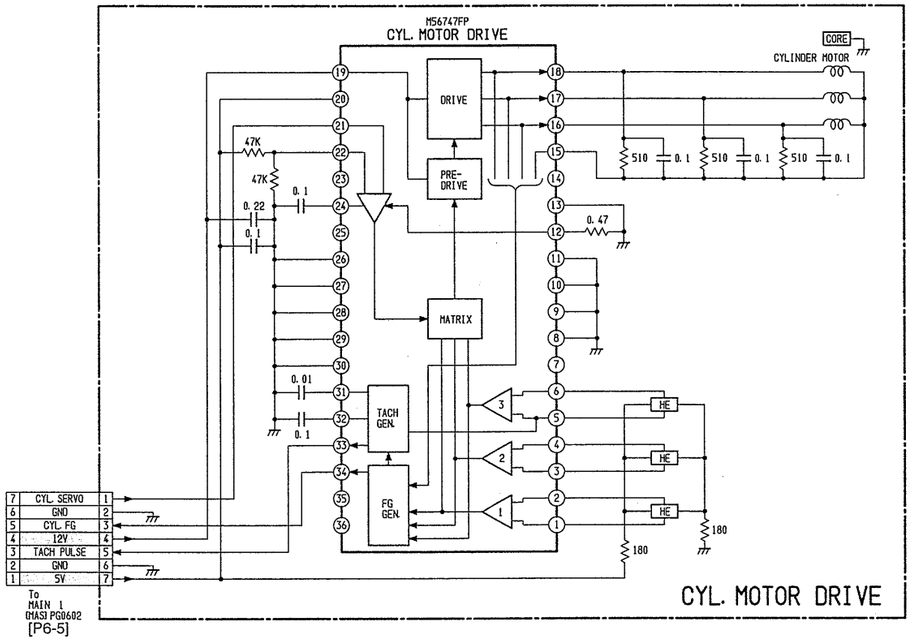


REGULATOR [REG] SCHEMATIC DIAGRAM

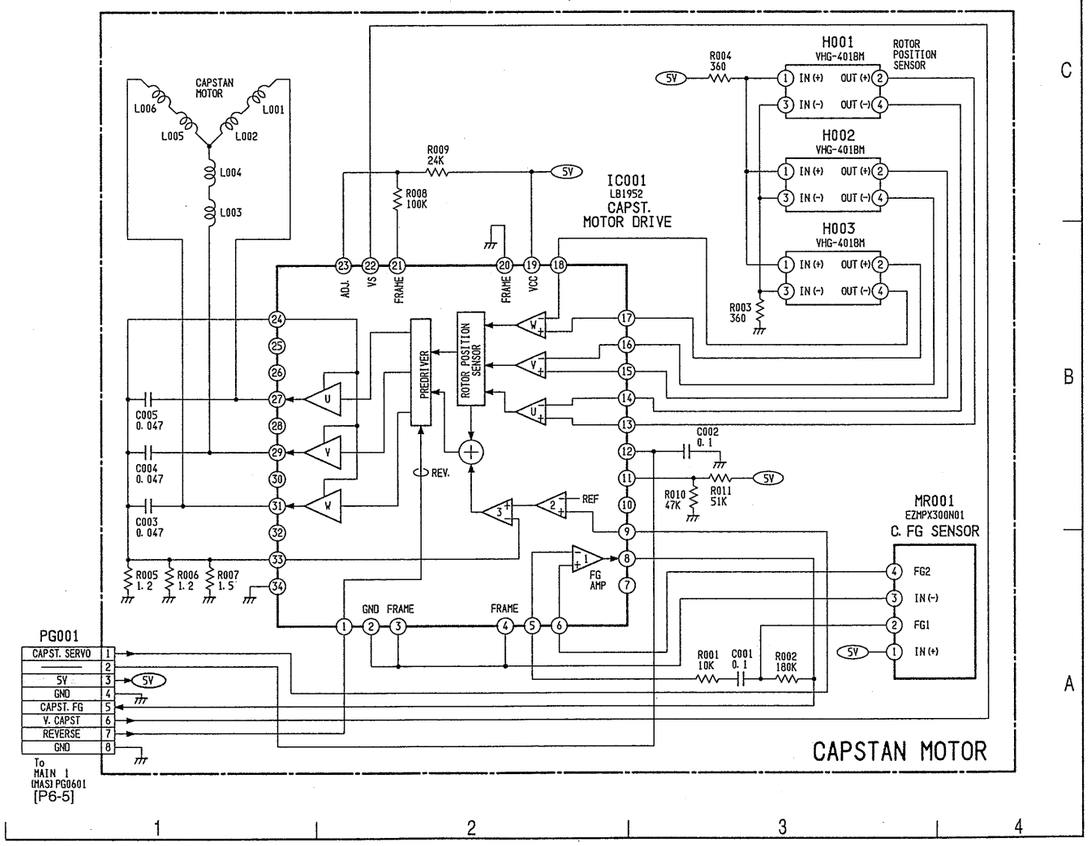


REGULATOR [REG]

CYL. MOTOR DRIVE SCHEMATIC DIAGRAM

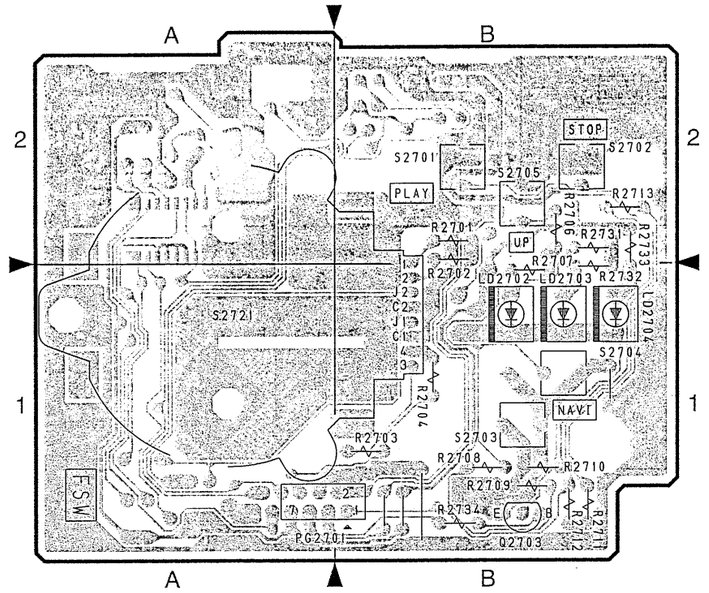


CAPSTAN MOTOR SCHEMATIC DIAGRAM



CYL. MOTOR DRIVE, CAPSTAN MOTOR 6 - 15

FSW CIRCUIT BOARD



FSW [FRONT SWITCH]
[PATTERN No.JK1457-3]
[FOR VT-UX6570A/AW]

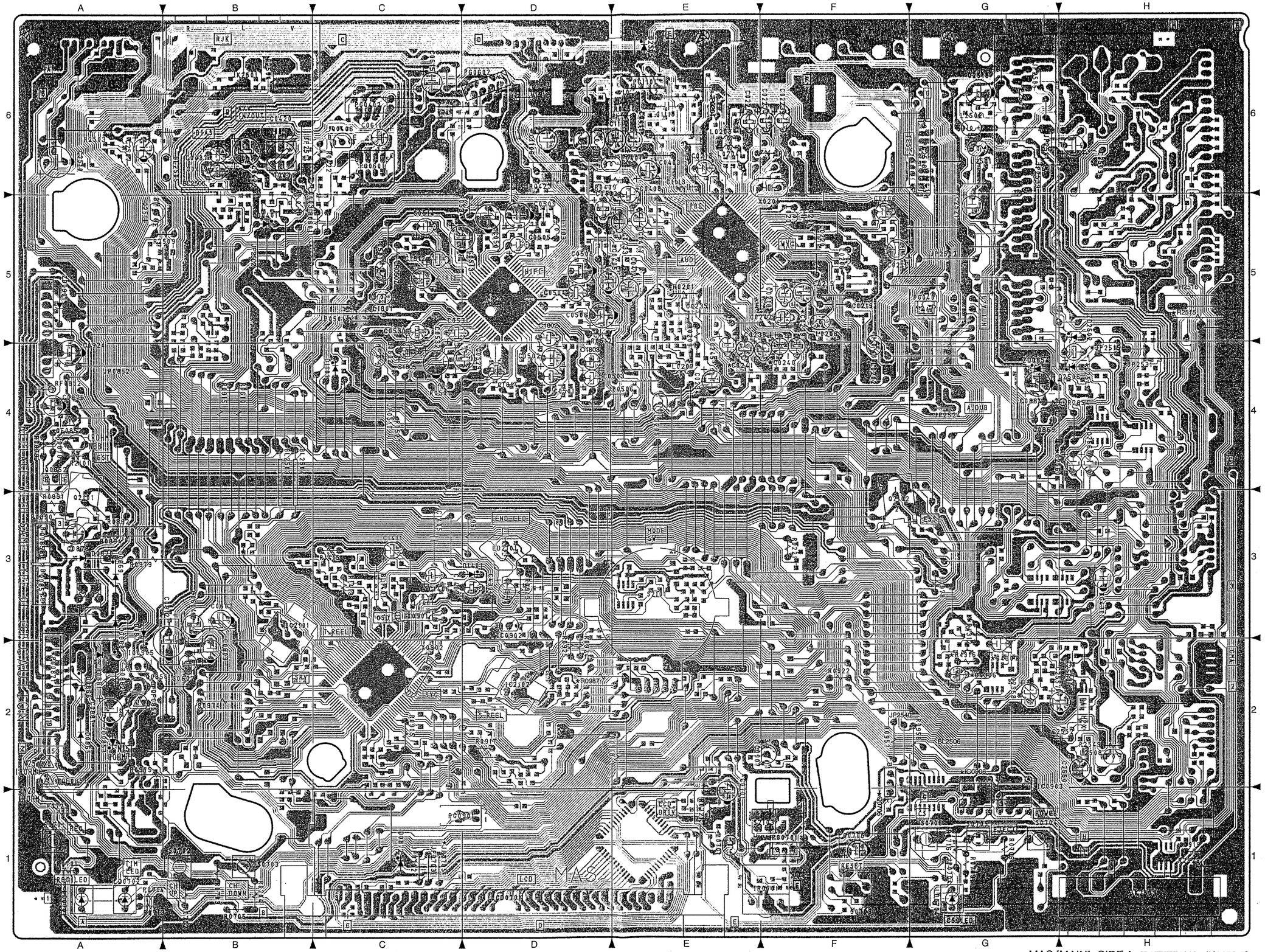
IDENTIFICATION OF PARTS LOCATION

FSW

Symbol No.	Parts Location
LD	
LD2702	1B
LD2703	1B
LD2704	1B
PG	
PG2701	1A
Q	
Q2703	1B
R	
R2701	2B
R2702	2B
R2703	1B
R2704	1B
R2706	2B
R2707	1B
R2708	1B
R2709	1B
R2710	1B
R2711	1B
R2712	1B
R2713	2B
R2731	2B
R2732	1B
R2733	2B
R2734	1B
S	
S2701	2B
S2702	2B
S2703	1B
S2704	1B
S2705	2B
S2721	1A

6 - 16 FSW

MAS CIRCUIT BOARD – SIDE A –



MAS –SIDE A– 6 - 17 6 - 18 MAS –SIDE A–

MAS [MAIN] -SIDE A- [PATTERN No.JK1456-5]

DIFFERENCE TABLE

MAS -SIDE A-

NOTE: This table listes the different components marked with asterisks (*) in the circuit board diagrams.

SYMBOL No.	UX6570A	UX6570AW	UX6530A	UX6530AW
C0239	○	○	JUMPER	JUMPER
C0240	×	×	○	○
C0241	×	×	○	○
C2545	○	○	JUMPER	JUMPER
C2560	○	○	×	×
C2561	○	○	×	×
C4305	○	○	×	×
C4306	○	○	×	×
C4307	○	○	×	×
IC0908	○	○	×	×
JP0705	○	○	×	×
JP2515	×	×	○	○
JP2531	○	○	×	×
PG0871	19P	19P	13P	13P
Q0706	○	○	×	×
R0987	○	○	×	×
R2515	×	×	×	○
R2516	×	×	×	○
R4312	○	○	×	×
R4316	○	○	×	×

IDENTIFICATION OF PARTS LOCATION

MAS

Symbol No.	Parts Location
BL	
BL1401	A-3C
BL2503	A-4B
BL2504	A-4B
BL2505	A-6B
BL2506	A-6B
C	
C0201	B-5E
C0202	B-6E
C0203	B-6E
C0204	B-6E
C0205	B-5F
C0206	A-5F
C0207	B-5F
C0208	A-5F
C0209	B-5F
C0211	A-5F
C0213	A-6E
C0214	B-5F
C0215	A-5F
C0216	B-5F
C0217	B-5F
C0218	A-5F
C0219	A-5F
C0220	A-5F
C0221	A-6E
C0222	B-6F
C0223	A-6F
C0225	B-3F
C0226	B-6F
C0227	A-6F
C0228	B-6F
C0229	B-6E
C0230	B-6E
C0231	B-5F
C0233	A-5E
C0234	A-4E
C0235	A-5E
C0236	B-5F
C0237	B-5F
C0238	A-4F
C0239	A-4F
C0240	A-4F
C0241	A-4E
C0242	A-5F
C0243	B-5E
C0244	B-5F
C0245	A-4E
C0246	B-5E
C0249	B-4E
C0250	B-4E
C0251	B-4E
C0255	B-5E
C0256	B-4E
C0260	B-4F
C0263	B-4F
C0402	A-5D
C0403	A-6E
C0404	B-6E
C0405	A-5D
C0406	B-5E
C0407	A-5E
C0408	A-5E
C0409	B-6D
C0410	B-6D
C0411	A-6E
C0413	B-5E
C0414	A-5E
C0419	A-6B
C0420	A-6B
C0421	B-6C
C0422	A-6B
C0424	B-6C
C0427	B-6B
C0429	B-6D
C0437	A-6B
C0501	A-4D
C0502	A-4D
C0503	A-4D
C0504	A-5D
C0505	A-5D
C0506	A-5D
C0507	A-5D
C0508	A-5D
C0509	A-5D
C0510	B-5D
C0512	B-5D
C0513	A-5D
C0514	A-5C
C0516	B-4D
C0517	B-4C
C0518	B-4C
C0519	B-5D
C0520	B-5D
C0528	B-5D
C0529	A-4D
C0530	A-5C
C0531	A-5C
C0532	A-4C
C0533	B-4C
C0601	B-2B
C0603	A-3B
C0604	A-3B
C0605	B-5B
C0606	B-2B
C0607	A-2B
C0608	B-1B
C0609	A-2B
C0610	A-6C
C0611	B-6C
C0614	B-6C
C0615	A-6C
C0701	A-1E
C0702	B-1E
C0703	B-1E
C0704	B-1E
C0706	A-1F
C0710	B-1F
C0876	A-4A
C0878	A-3A
C0883	B-5G
C0884	A-4G
C0887	A-2A
C0901	B-2D
C0902	B-3C
C0903	B-3C
C0904	B-3C
C0905	B-2D
C0906	B-3C
C0907	B-3D
C0908	B-3D
C0909	B-3D
C0910	B-2D
C0911	B-2D
C0912	A-2B
C0915	B-2A
C0916	B-2F
C0917	B-2E
C0918	B-2A
C0919	A-1H
C0920	B-1G
C0921	B-2B
C0922	B-2B
C0923	B-5A
C0924	A-4A
C0925	B-5A
C0926	B-4A
C0927	B-5A
C0928	B-4A
C0929	B-3D
C0930	B-1G
C0933	B-1B
C1101	B-5D
C1103	B-6D
C1104	B-5D
C1106	A-6D
C1107	B-6D
C1108	B-6D
C1109	B-6D
C1111	B-6E
C1112	A-6E
C1113	A-6E
C1114	B-6E
C1115	A-6E
C1116	B-6E
C1117	B-6E
C1118	B-6E
C1119	B-6E
C1120	B-6E
C1121	B-6E
C1401	B-3C
C1402	B-3C
C1403	B-3C
C1404	B-3C
C1405	A-3C
C1406	A-3C
C1407	A-3D
C1408	B-3C
C1410	B-3C
C1411	A-3C
C1413	B-3C
C1414	B-2E
C1415	B-3C
C1416	B-3C
C1419	B-3C
C1801	B-4D
C1802	A-5D
C1803	A-4D
C1805	A-4C
C1806	B-5C
C1807	B-5C
C1808	B-5C
C1809	B-4D
C1810	B-5C
C1811	A-5C
C1812	A-5C
C1813	B-5C
C1814	A-4D
C1820	B-4D
C1821	B-4D
C1896	B-5C
C2101	B-3A
C2102	B-3G
C2501	B-6B
C2502	B-6B
C2504	B-6H
C2507	A-6A
C2508	B-5B
C2509	A-6H
C2510	A-6A
C2513	A-6G
C2521	A-6G
C2524	B-4G
C2534	A-5H
C2536	B-5G
C2545	A-4H
C2550	A-2H
C2551	B-2H
C2552	A-2H
C2557	A-2H
C2558	A-2G
C2559	B-4H
C2560	A-4H
C2561	A-4H
C2575	B-2H
C2581	B-1H
C4301	A-3D
C4302	B-3E
C4305	A-3H
C4306	A-2G
C4307	A-2G
C4308	B-2G
C4309	B-3G
D	
D0401	A-5B
D0865	A-2A
D0866	A-2A
D0867	A-2A
D0868	A-3A
D0869	A-3A
D0870	A-3A
D0871	A-3A
D0872	A-1C
D1101	A-4C
D1401	A-3D
D2505	A-6E
D2506	A-4H
FE	
FE2501	A-6G
IC	
IC0201	B-5E
IC0501	B-5D
IC0701	B-1E
IC0901	B-2C
IC0902	A-3D
IC0903	A-1G
IC0904	A-5A
IC0905	A-2A
IC0906	B-1H
IC0907	A-2F
IC0908	A-1G
IC2101	A-3B
IC2102	A-2D
IC2501	B-4H
IC4301	B-3E
IC4302	B-2G
IR	
IR0701	A-1F
JK	
JK2501	A-6B
JK2503	A-1H
JP	
JP0701	B-1F
JP0705	A-1C
JP2515	A-4H
JP2518	B-4H
JP2519	B-2G
JP2531	A-4H
L	
L0201	A-5F
L0202	A-4F
L0203	A-6E
L0204	A-6E
L0205	A-4E
L0206	A-5F
L0207	A-4E
L0208	A-5F
L0401	A-6E
L0403	A-5B
L0501	A-5C
L0502	A-4C
L0701	A-1E
L1101	A-6D
L1102	A-6D
L1103	A-5D
L1401	A-3C
L1801	A-5C
L2501	A-6G
L2502	A-6G
L2508	A-2H
LCD	
LCD0701	A-1D
LD	
LD0701	A-1A
LD0702	A-1A
LD0704	A-1G
LD2101	A-3D
PG	
PG0401	A-5G
PG0402	A-6C
PG0601	A-6C
PG0602	A-6D
PG0701	A-1F
PG0871	A-2A
PG0901	A-1D
PG1101	A-6E
PG2508	A-6G
Q	
Q0201	B-4E
Q0202	B-3F
Q0403	B-6B
Q0405	B-5B
Q0406	A-6C
Q0411	B-5B
Q0412	B-5B
Q0413	B-6B
Q0601	B-6C
Q0701	B-1A
Q0702	B-1A
Q0704	B-1G
Q0706	A-2F
Q0707	B-1F
Q0852	A-4A
Q0853	B-4A
Q0856	A-2A
Q0857	A-3A
Q0858	A-3A
Q0859	B-3A
Q0860	B-3A
Q0863	B-6G
Q0869	A-4G
Q0901	B-2B
Q1401	B-3C
Q1402	B-3C
Q1403	B-3B
Q1404	B-3C
Q1405	B-2E
Q2101	A-3A
Q2102	A-3F
Q2103	B-2D
Q2104	B-3B
Q2501	B-6A
Q2502	B-6B
Q2503	B-5A
Q2509	B-4H
Q2510	B-4G
Q2511	A-5A
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Q2515	B-2G
Q2516	B-2G
Q2517	B-2G
Q2570	B-2H
Q4302	B-2G
Q4303	B-3G
Q4304	B-2G
Q4305	B-3E
Q4306	B-3E
QF	
QF0851	A-2A
QF0852	A-4A
QF0853	A-2A
QF0854	A-2A
R	
R0201	A-5E
R0202	B-5F
R0203	B-5F
R0204	B-5F
R0205	B-5F
R0206	B-4E
R0208	B-5E
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R0504	B-5D
R0507	A-5C
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R0516	B-4D
R0517	B-4D
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R0706	A-1G
R0707	B-1G
R0708	B-1G
R0709	A-1G
R0710	B-1G
R0713	A-1A
R0714	A-1A
R0716	A-1G
R0718	B-1F
R0719	B-1F
R0721	A-1E
R0722	B-2E
R0723	B-1E
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R0904	B-2C
R0905	A-2C
R0907	B-2C
R0908	B-2C
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R0911	B-2F
R0912	B-2D
R0913	B-2D
R0915	A-4B
R0917	A-2D
R0918	A-2E
R0922	A-2F
R0923	B-2D
R0924	A-2D
R0925	A-2D
R0930	B-2C
R0931	B-2D
R0933	B-3D
R0940	B-3D
R0943	A-3D
R0944	B-3D
R0945	B-3D
R0947	B-2F
R0948	B-2E
R0949	B-2F
R0951	A-3D
R0957	A-2F
R0958	A-2G
R0959	B-3C
R0963	B-3B
R0964	B-3B
R0965	B-3B
R0966	B-3B
R0968	B-2B
R0969	B-3B
R0970	B-2B
R0971	B-2B
R0974	A-2B
R0975	A-2A
R0976	B-2B
R0977	B-3G
R0978	A-3G
R0979	A-3A
R0984	B-2E
R0985	B-2D
R0986	B-2D
R0987	A-2D
R0994	B-2B
R0995	B-1B
R1101	B-5D
R1102	B-5D
R1103	B-5D
R1401	B-3C
R1402	B-3C
R1403	B-3C
R1404	B-3C
R1405	B-3C
R1406	B-3C
R1407	B-3C
R1408	B-3C
R1409	B-3C
R1410	B-3C
R1411	B-3C
R1412	B-3C
R1413	A-3C
R1414	B-3C
R1415	A-3C
R1416	B-2E
R2101	A-4A
R2102	B-1F
R2103	B-3B
R2104	B-2D
R2105	B-2D
R2106	B-3D
R2107	B-2E
R2108	B-2E
R2109	B-2E
R2110	B-2E
R2111	B-2D
R2112	B-3B
R2113	B-3D
R2114	B-3B
R2115	B-3B
R2116	B-2D
R2501	B-6B
R2502	B-6B
R2503	A-6A
R2504	A-6B
R2507	B-6A
R2508	B-6A
R2509	A-5B
R2510	B-6B
R2511	B-5A
R2512	B-5B
R2515	A-5H
R2516	A-5H
R2524	B-4H
R2529	A-1H
R2534	B-5A
R2542	B-1H
R2544	B-4H
R2549	A-2H
R2551	B-2H
R2553	B-2H
R2555	B-2G
R2556	B-2G
R2557	B-2H
R2558	B-2G
R2559	B-2G
R2560	A-2H
R2561	B-2H
R2852	B-4G
R2853	B-4G
R2854	A-4G
R2855	B-3A
R2856	B-3A
R4301	B-3E
R4302	B-3E
R4303	B-3E
R4304	B-3E
R4306	B-3E
R4307	B-3E
R4308	B-3E
R4309	B-3E
R4310	B-3H
R4311	B-3G
R4312	A-3G
R4313	B-3G
R4314	B-2G
R4315	B-2G
R4316	A-2G
R4317	B-2G
R4318	B-2G
RF	
RF0852	A-4A
S	
S0701	A-1A
S0702	A-1B
S0703	A-1B
S0704	A-1G
S0705	A-1G
S0706	A-1G
S0709	A-1F
S2101	A-2E
S2102	A-3A
S2103	A-1F
T	
T0401	A-6B
X	
X0201	A-6F
X0901	A-3C
X0902	A-2C
ZD	
ZD0853	A-2A
ZD0854	A-4G
ZD0901	A-5A
ZD2502	A-5H

IDENTIFICATION OF PARTS LOCATION

MAS

Symbol No.	Parts Location
BL	
BL1401	A-3C
BL2503	A-4B
BL2504	A-4B
BL2505	A-6B
BL2506	A-6B
C	
C0201	B-5E
C0202	B-6E
C0203	B-6E
C0204	B-6E
C0205	B-5F
C0206	A-5F
C0207	B-5F
C0208	A-5F
C0209	B-5F
C0211	A-5F
C0213	A-6E
C0214	B-5F
C0215	A-5F
C0216	B-5F
C0217	B-5F
C0218	A-5F
C0219	A-5F
C0220	A-5F
C0221	A-6E
C0222	B-6F
C0223	A-6F
C0225	B-3F
C0226	B-6F
C0227	A-6F
C0228	B-6F
C0229	B-6E
C0230	B-6E
C0231	B-5F
C0233	A-5E
C0234	A-4E
C0235	A-5E
C0236	B-5F
C0237	B-5F
C0238	A-4F
C0239	A-4F
C0240	A-4F
C0241	A-4E
C0242	A-5F
C0243	B-5E
C0244	B-5F
C0245	A-4E
C0246	B-5E
C0249	B-4E
C0250	B-4E
C0251	B-4E
C0255	B-5E
C0256	B-4E
C0260	B-4F
C0263	B-4F
C0402	A-5D
C0403	A-6E
C0404	B-6E
C0405	A-5D
C0406	B-5E
C0407	A-5E
C0408	A-5E
C0409	B-6D
C0410	B-6D
C0411	A-6E
C0413	B-5E
C0414	A-5E
C0419	A-6B
C0420	A-6B
C0421	B-6C
C0422	A-6B
C0424	B-6C
C0427	B-6B
C0429	B-6D
C0437	A-6B
C0501	A-4D
C0502	A-4D
C0503	A-4D
C0504	A-5D
C0505	A-5D
C0506	A-5D
C0507	A-5D
C0508	A-5D
C0509	A-5D
C0510	B-5D
C0512	B-5D
C0513	A-5D
C0514	A-5C
C0516	B-4D
C0517	B-4C
C0518	B-4C
C0519	B-5D
C0520	B-5D
C0528	B-5D
C0529	A-4D
C0530	A-5C
C0531	A-5C
C0532	A-4C
C0533	B-4C
C0601	B-2B
C0603	A-3B
C0604	A-3B
C0605	B-5B
C0606	B-2B
C0607	A-2B
C0608	B-1B
C0609	A-2B
C0610	A-6C
C0611	B-6C
C0614	B-6C
C0615	A-6C
C0701	A-1E
C0702	B-1E
C0703	B-1E
C0704	B-1E
C0706	A-1F
C0710	B-1F
C0876	A-4A
C0878	A-3A
C0883	B-5G
C0884	A-4G
C0887	A-2A
C0901	B-2D
C0902	B-3C
C0903	B-3C
C0904	B-3C
C0905	B-2D
C0906	B-3C
C0907	B-3D
C0908	B-3D
C0909	B-3D
C0910	B-2D
C0911	B-2D
C0912	A-2B
C0915	B-2A
C0916	B-2F
C0917	B-2E
C0918	B-2A
C0919	A-1H
C0920	B-1G
C0921	B-2B
C0922	B-2B
C0923	B-5A
C0924	A-4A
C0925	B-5A
C0926	B-4A
C0927	B-5A
C0928	B-4A
C0929	B-3D
C0930	B-1G
C0933	B-1B
C1101	B-5D
C1103	B-6D
C1104	B-5D
C1106	A-6D
C1107	B-6D
C1108	B-6D
C1109	B-6D
C1111	B-6E
C1112	A-6E
C1113	A-6E
C1114	B-6E
C1115	A-6E
C1116	B-6E
C1117	B-6E
C1118	B-6E
C1119	B-6E
C1120	B-6E
C1121	B-6E
C1401	B-3C
C1402	B-3C
C1403	B-3C
C1404	B-3C
C1405	A-3C
C1406	A-3C
C1407	A-3D
C1408	B-3C
C1410	B-3C
C1411	A-3C
C1413	B-3C
C1414	B-2E
C1415	B-3C
C1416	B-3C
C1419	B-3C
C1801	B-4D
C1802	A-5D
C1803	A-4D
C1805	A-4C
C1806	B-5C
C1807	B-5C
C1808	B-5C
C1809	B-4D
C1810	B-5C
C1811	A-5C
C1812	A-5C
C1813	B-5C
C1814	A-4D
C1820	B-4D
C1821	B-4D
C1896	B-5C
C2101	B-3A
C2102	B-3G
C2501	B-6B
C2502	B-6B
C2504	B-6H
C2507	A-6A
C2508	B-5B
C2509	A-6H
C2510	A-6A
C2513	A-6G
C2521	A-6G
C2524	B-4G
C2534	A-5H
C2536	B-5G
C2545	A-4H
C2550	A-2H
C2551	B-2H
C2552	A-2H
C2557	A-2H
C2558	A-2G
C2559	B-4H
C2560	A-4H
C2561	A-4H
C2575	B-2H
C2581	B-1H
C4301	A-3D
C4302	B-3E
C4305	A-3H
C4306	A-2G
C4307	A-2G
C4308	B-2G
C4309	B-3G
D	
D0401	A-5B
D0865	A-2A
D0866	A-2A
D0867	A-2A
D0868	A-3A
D0869	A-3A
D0870	A-3A
D0871	A-3A
D0872	A-1C
D1101	A-4C
D1401	A-3D
D2505	A-6E
D2506	A-4H
FE	
FE2501	A-6G
IC	
IC0201	B-5E
IC0501	B-5D
IC0701	B-1E
IC0901	B-2C
IC0902	A-3D
IC0903	A-1G
IC0904	A-5A
IC0905	A-2A
IC0906	B-1H
IC0907	A-2F
IC0908	A-1G
IC2101	A-3B
IC2102	A-2D
IC2501	B-4H
IC4301	B-3E
IC4302	B-2G
IR	
IR0701	A-1F
JK	
JK2501	A-6B
JK2503	A-1H
JP	
JP0701	B-1F
JP0705	A-1C
JP2515	A-4H
JP2518	B-4H
JP2519	B-2G
JP2531	A-4H
L	
L0201	A-5F
L0202	A-4F
L0203	A-6E
L0204	A-6E
L0205	A-4E
L0206	A-5F
L0207	A-4E
L0208	A-5F
L0401	A-6E
L0403	A-5B
L0501	A-5C
L0502	A-4C
L0701	A-1E
L1101	A-6D
L1102	A-6D
L1103	A-5D
L1401	A-3C
L1801	A-5C
L2501	A-6G
L2502	A-6G
L2508	A-2H
LCD	
LCD0701	A-1D
LD	
LD0701	A-1A
LD0702	A-1A
LD0704	A-1G
LD2101	A-3D
PG	
PG0401	A-5G
PG0402	A-6C
PG0601	A-6C
PG0602	A-6D
PG0701	A-1F
PG0871	A-2A
PG0901	A-1D
PG1101	A-6E
PG2508	A-6G
Q	
Q0201	B-4E
Q0202	B-3F
Q0403	B-6B
Q0405	B-5B
Q0406	A-6C
Q0411	B-5B
Q0412	B-5B
Q0413	B-6B
Q0601	B-6C
Q0701	B-1A
Q0702	B-1A
Q0704	B-1G
Q0706	A-2F
Q0707	B-1F
Q0852	A-4A
Q0853	B-4A
Q0856	A-2A
Q0857	A-3A
Q0858	A-3A
Q0859	B-3A
Q0860	B-3A
Q0863	B-6G
Q0869	A-4G
Q0901	B-2B
Q1401	B-3C
Q1402	B-3C
Q1403	B-3B
Q1404	B-3C
Q1405	B-2E
Q2101	A-3A
Q2102	A-3F
Q2103	B-2D
Q2104	B-3B
Q2501	B-6A
Q2502	B-6B
Q2503	B-5A
Q2509	B-4H
Q2510	B-4G
Q2511	A-5A
Q2513	B-2H
Q2515	B-2G
Q2516	B-2G
Q2517	B-2G
Q2570	B-2H
Q4302	B-2G
Q4303	B-3G
Q4304	B-2G
Q4305	B-3E
Q4306	B-3E
QF	
QF0851	A-2A
QF0852	A-4A
QF0853	A-2A
QF0854	A-2A
R	
R0201	A-5E
R0202	B-5F
R0203	B-5F
R0204	B-5F
R0205	B-5F
R0206	B-4E
R0208	B-5E
R0209	A-5E
R0210	B-5E
R0211	B-5F
R0213	B-5F
R0215	B-6E
R0216	B-5F
R0217	A-6F
R0218	B-5F
R0220	B-6E
R0221	A-3F
R0402	B-6D
R0407	B-6E
R0408	B-5E
R0409	A-6E
R0410	B-5E
R0413	B-6B
R0414	B-6B
R0418	B-5B
R0419	B-5B
R0420	B-6C
R0421	B-6B
R0422	A-6C
R0423	A-6D
R0429	B-5B
R0430	B-5B
R0431	B-5B
R0432	B-5B
R0434	B-5B
R0450	A-6E
R0501	A-4C
R0502	B-4C
R0503	B-5D
R0504	B-5D
R0507	A-5C
R0512	A-5D
R0513	B-4D
R0516	B-4D
R0517	B-4D
R0522	B-4D
R0523	B-4D
R0526	B-5C
R0527	A-4C
R0534	A-5D
R0601	A-5C
R0602	B-6C
R0603	B-6D
R0604	B-5B
R0605	B-4B
R0606	B-5B
R0607	B-6C
R0609	B-5C
R0610	A-4B
R0613	B-6D
R0701	A-1A
R0702	A-1B
R0703	A-1B
R0704	A-1B
R0705	A-1B
R0706	A-1G
R0707	B-1G
R0708	B-1G
R0709	A-1G
R0710	B-1G
R0713	A-1A
R0714	A-1A
R0716	A-1G
R0718	B-1F
R0719	B-1F
R0721	A-1E
R0722	B-2E
R0723	B-1E
R0724	B-1E
R0725	A-1A
R0877	B-4A
R0878	A-4A
R0879	A-4A
R0880	B-4A
R0881	A-2A
R0882	A-2A
R0886	B-3A
R0887	B-3A
R0888	B-3A
R0889	B-3A
R0890	A-3A
R0891	A-3A
R0892	A-3A
R0893	B-3A
R0894	A-3A
R0895	B-3A
R0901	B-2C
R0902	B-2C
R0903	B-2C
R0904	B-2C
R0905	A-2C
R0907	B-2C
R0908	B-2C
R0910	B-2C
R0911	B-2F
R0912	B-2D
R0913	B-2D
R0915	A-4B
R0917	A-2D
R0918	A-2E
R0922	A-2F
R0923	B-2D
R0924	A-2D
R0925	A-2D
R0930	B-2C
R0931	B-2D
R0933	B-3D
R0940	B-3D
R0943	A-3D
R0944	B-3D
R0945	B-3D
R0947	B-2F
R0948	B-2E
R0949	B-2F
R0951	A-3D
R0957	A-2F
R0958	A-2G
R0959	B-3C
R0963	B-3B
R0964	B-3B
R0965	B-3B
R0966	B-3B
R0968	B-2B
R0969	B-3B
R0970	B-2B
R0971	B-2B
R0974	A-2B
R0975	A-2A
R0976	B-2B
R0977	B-3G
R0978	A-3G
R0979	A-3A
R0984	B-2E
R0985	B-2D
R0986	B-2D
R0987	A-2D
R0994	B-2B
R0995	B-1B
R1101	B-5D
R1102	B-5D
R1103	B-5D
R1401	B-3C
R1402	B-3C
R1403	B-3C
R1404	B-3C
R1405	B-3C
R1406	B-3C
R1407	B-3C
R1408	B-3C
R1409	B-3C
R1410	B-3C
R1411	B-3C
R1412	B-3C
R1413	A-3C
R1414	B-3C
R1415	A-3C
R1416	B-2E
R2101	A-4A
R2102	B-1F
R2103	B-3B
R2104	B-2D
R2105	B-2D
R2106	B-3D
R2107	B-2E
R2108	B-2E
R2109	B-2E
R2110	B-2E
R2111	B-2D
R2112	B-3B
R2113	B-3D
R2114	B-3B
R2115	B-3B
R2116	B-2D
R2501	B-6B
R2502	B-6B
R2503	A-6A
R2504	A-6B
R2507	B-6A
R2508	B-6A
R2509	A-5B
R2510	B-6B
R2511	B-5A
R2512	B-5B
R2515	A-5H
R2516	A-5H
R2524	B-4H
R2529	A-1H
R2534	B-5A
R2542	B-1H
R2544	B-4H
R2549	A-2H
R2551	B-2H
R2553	B-2H
R2555	B-2G
R2556	B-2G
R2557	B-2H
R2558	B-2G
R2559	B-2G
R2560	A-2H
R2561	B-2H
R2852	B-4G
R2853	B-4G
R2854	A-4G
R2855	B-3A
R2856	B-3A
R4301	B-3E
R4302	B-3E
R4303	B-3E
R4304	B-3E
R4306	B-3E
R4307	B-3E
R4308	B-3E
R4309	B-3E
R4310	B-3H
R4311	B-3G
R4312	A-3G
R4313	B-3G
R4314	B-2G
R4315	B-2G
R4316	A-2G
R4317	B-2G
R4318	B-2G
RF	
RF0852	A-4A
S	
S0701	A-1A
S0702	A-1B
S0703	A-1B
S0704	A-1G
S0705	A-1G
S0706	A-1G
S0709	A-1F
S2101	A-2E
S2102	A-3A
S2103	A-1F
T	
T0401	A-6B
X	
X0201	A-6F
X0901	A-3C
X0902	A-2C
ZD	
ZD0853	A-2A
ZD0854	A-4G
ZD0901	A-5A
ZD2502	A-5H

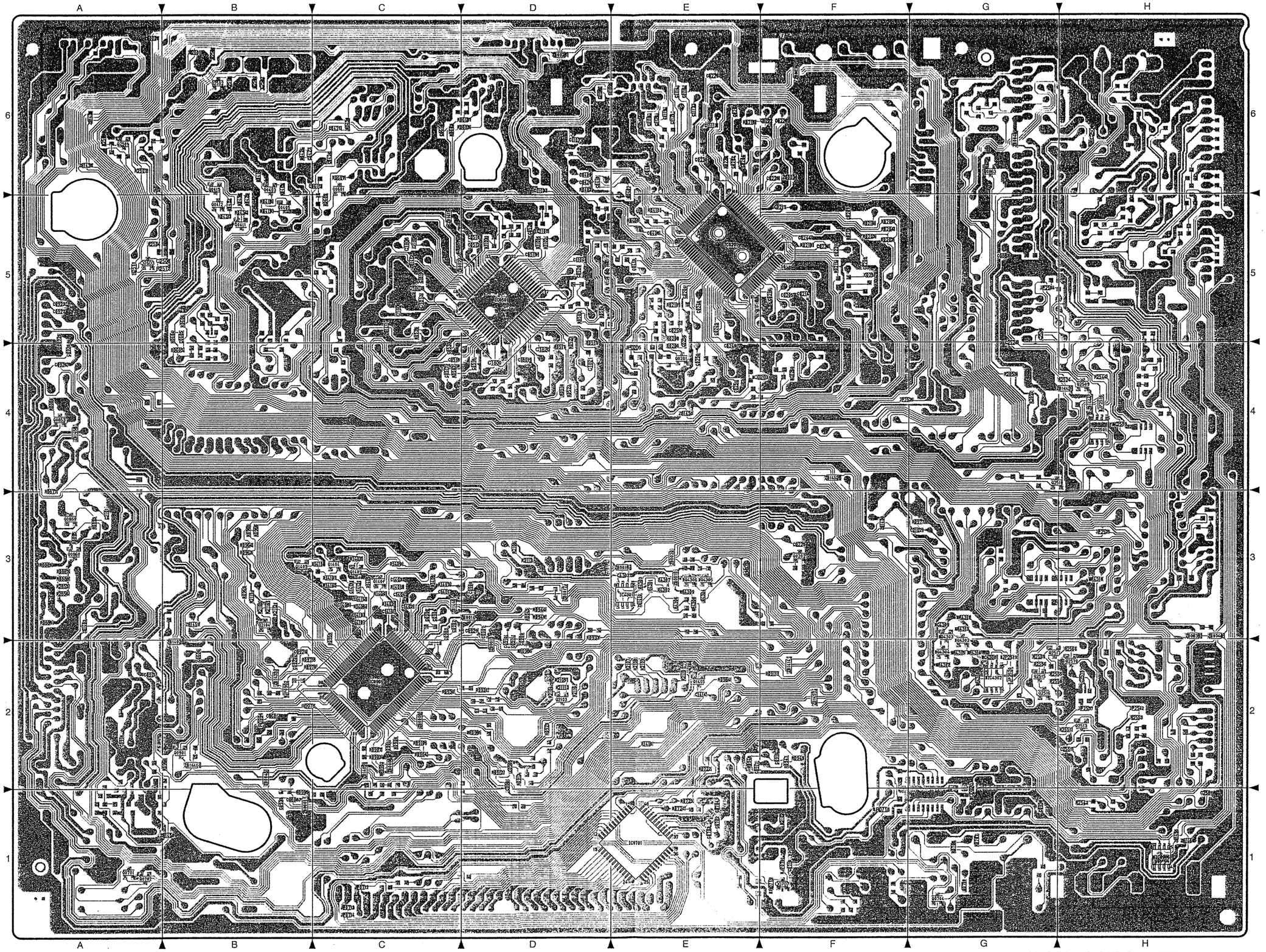
DIFFERENCE TABLE

MAS -SIDE B-

NOTE: This table listes the different components marked with asterisks (*) in the circuit board diagrams.

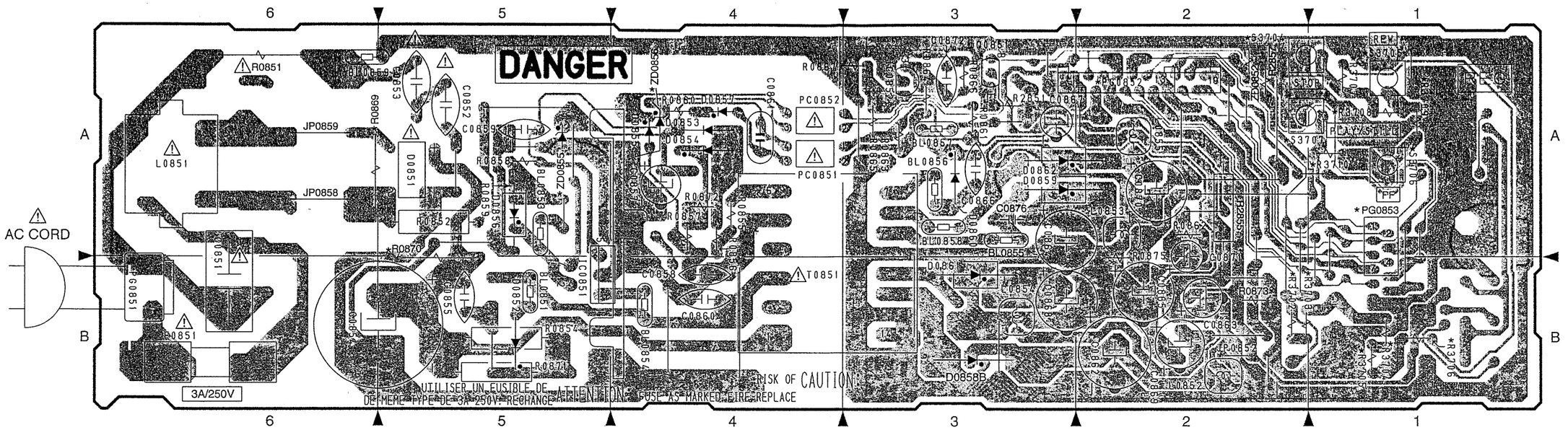
SYMBOL No.	UX6570A	UX6570AW	UX6530A	UX6530AW
C0260	JUMPER	JUMPER	○	○
C0263	○	○	×	×
C0920	○	○	×	×
C2559	○	○	×	×
C4308	○	○	×	×
C4309	○	○	×	×
IC0906	○	○	×	×
IC2501	○	○	×	×
IC4302	○	○	×	×
JP0701	○	○	×	×
JP2518	○	○	×	×
JP2519	○	○	×	×
Q0707	○	○	×	×
Q4302	○	○	×	×
Q4303	○	○	×	×
Q4304	○	○	×	×
Q4305	○	○	×	×
Q4306	○	○	×	×
R0718	○	○	×	×
R0719	○	○	×	×
R0985	×	×	JUMPER	JUMPER
R0986	×	×	○	○
R4308	○	○	×	×
R4309	○	○	×	×
R4310	○	○	×	×
R4311	○	○	×	×
R4313	○	○	×	×
R4314	○	○	×	×
R4315	○	○	×	×
R4317	○	○	×	×
R4318	○	○	×	×

MAS CIRCUIT BOARD – SIDE B –

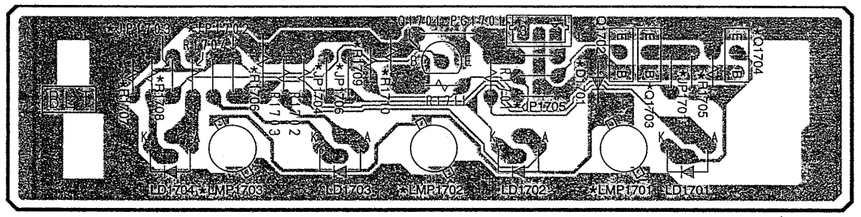


MAS –SIDE B– 6 - 23

MAS [MAIN] -SAID B- [PATTERN No.JK1456-5]



REG [REGULATOR]
[PATTERN No.JK1466-8]



BLT [BACK LIGHT]
[PATTERN No.JK1466-8]

DIFFERENCE TABLE

BLT

NOTE: This table listes the different components marked with asterisks (*) in the circuit board diagrams.

SYMBOL No.	UX6570A	UX6570AW	UX6530A	UX6530AW
D1701	○	○	×	×
JP1701	○	○	×	×
JP1702	○	○	×	×
JP1703	○	○	×	×
JP1704	×	×	○	○
JP1705	×	×	○	○
JP1706	○	○	×	×
LMP1701	○	○	×	×
LMP1702	○	○	×	×
LMP1703	○	○	×	×
Q1703	×	×	○	○
Q1704	×	×	○	○
R1705	×	×	○	○
R1706	×	×	○	○
R1707	×	×	○	○
R1708	×	×	○	○
R1709	○	○	×	×
R1710	○	○	×	×

REG

NOTE: This table listes the different components marked with asterisks (*) in the circuit board diagrams.

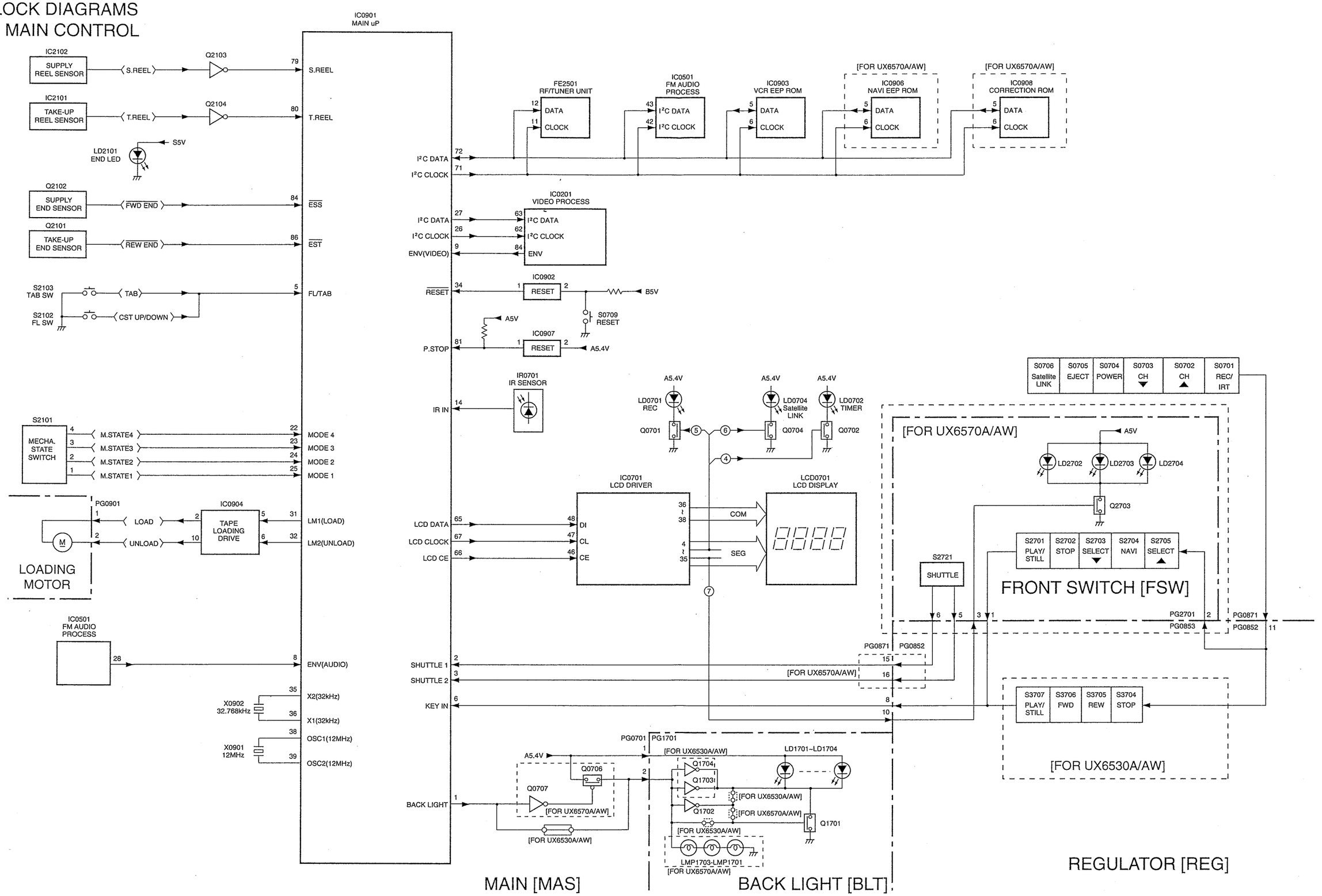
SYMBOL No.	UX6570A	UX6570AW	UX6530A	UX6530AW
PG0852	19P	19P	13P	13P
PG0853	7P	7P	×	×
R0869	×	○	×	○
R0870	×	○	×	○
R3702	×	×	○	○
R3703	×	×	○	○
R3704	×	×	○	○
R3705	×	×	○	○
R3706	×	×	○	○
R3707	×	×	○	○
R3708	×	×	○	○
R3709	×	×	○	○
R3710	×	×	○	○
S3704	×	×	○	○
S3705	×	×	○	○
S3706	×	×	○	○
S3707	×	×	○	○
ZD0855	×	○	×	○
ZD0856	×	○	×	○

IDENTIFICATION OF PARTS LOCATION

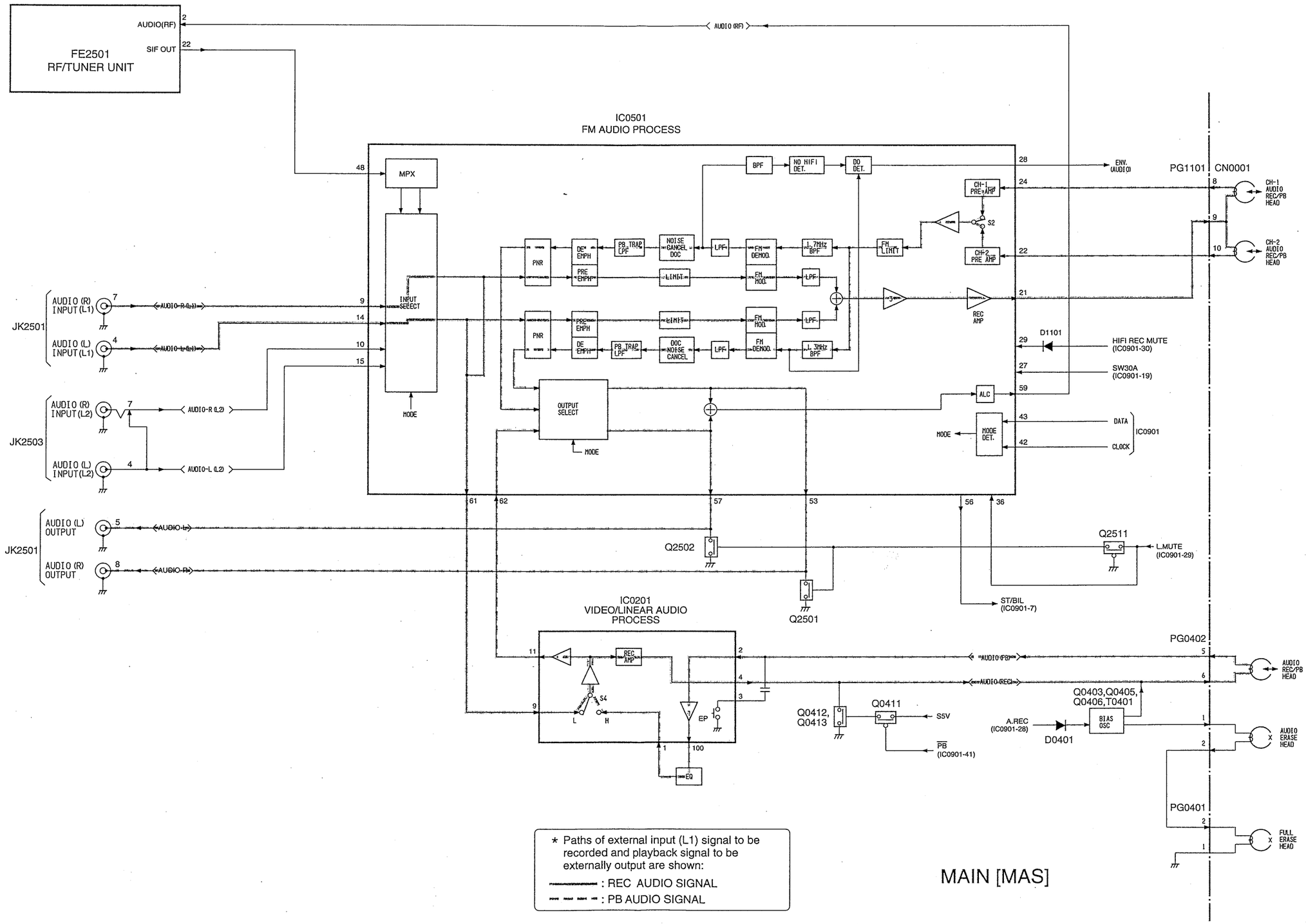
REG

Symbol No.	Parts Location
BL	
BL0851	5B
BL0853	5A
BL0854	4B
BL0855	3A
BL0856	3A
BL0857	3A
BL0858	3A
BL0859	6A
C	
C0851	6B
C0852	5A
C0853	5A
C0854	6B
C0855	5B
C0857	4A
C0858	4B
C0859	5A
C0860	4B
C0861	4A
C0862	2B
C0863	2B
C0864	3A
C0865	2B
C0866	3A
C0867	3A
C0868	3B
C0869	2B
C0870	2A
C0871	2B
C0872	3A
C0876	3A
D	
D0851	5A
D0852	5B
D0853	4A
D0854	4A
D0855	4A
D0856	5A
D0857	4A
D0859	3A
D0860	3A
D0861	3B
D0862	3A
D0858B	3B
F	
F0851	6B
IC	
IC0851	5B
IC0852	3A
L	
L0851	6A
L0852	2B
L0853	2A
L0854	3B
L0855	2A
PC	
PC0851	4A
PC0852	4A
PG	
PG0851	6B
PG0852	2A
PG0853	1A
Q	
Q0851	3A
R	
R0851	6A
R0852	5A
R0854	5B
R0855	4A
R0856	4A
R0857	4A
R0858	5A
R0859	5A
R0860	4A
R0861	3A
R0862	2A
R0863	3A
R0864	3A
R0865	3A
R0866	3A
R0867	3A
R0869	6A
R0870	5B
R0871	5B
R0872	4A
R0873	2B
R0875	2B
R2851	3A
R2855	2A
R2857	2A
R3702	2B
R3703	1B
R3704	1B
R3705	1B
R3706	1B
R3707	1A
R3708	1A
R3709	1A
R3710	1A
S	
S3704	2A
S3705	1A
S3706	1A
S3707	2A
T	
T0851	4B
ZD	
ZD0852	2A
ZD0855	5A
ZD0856	4A

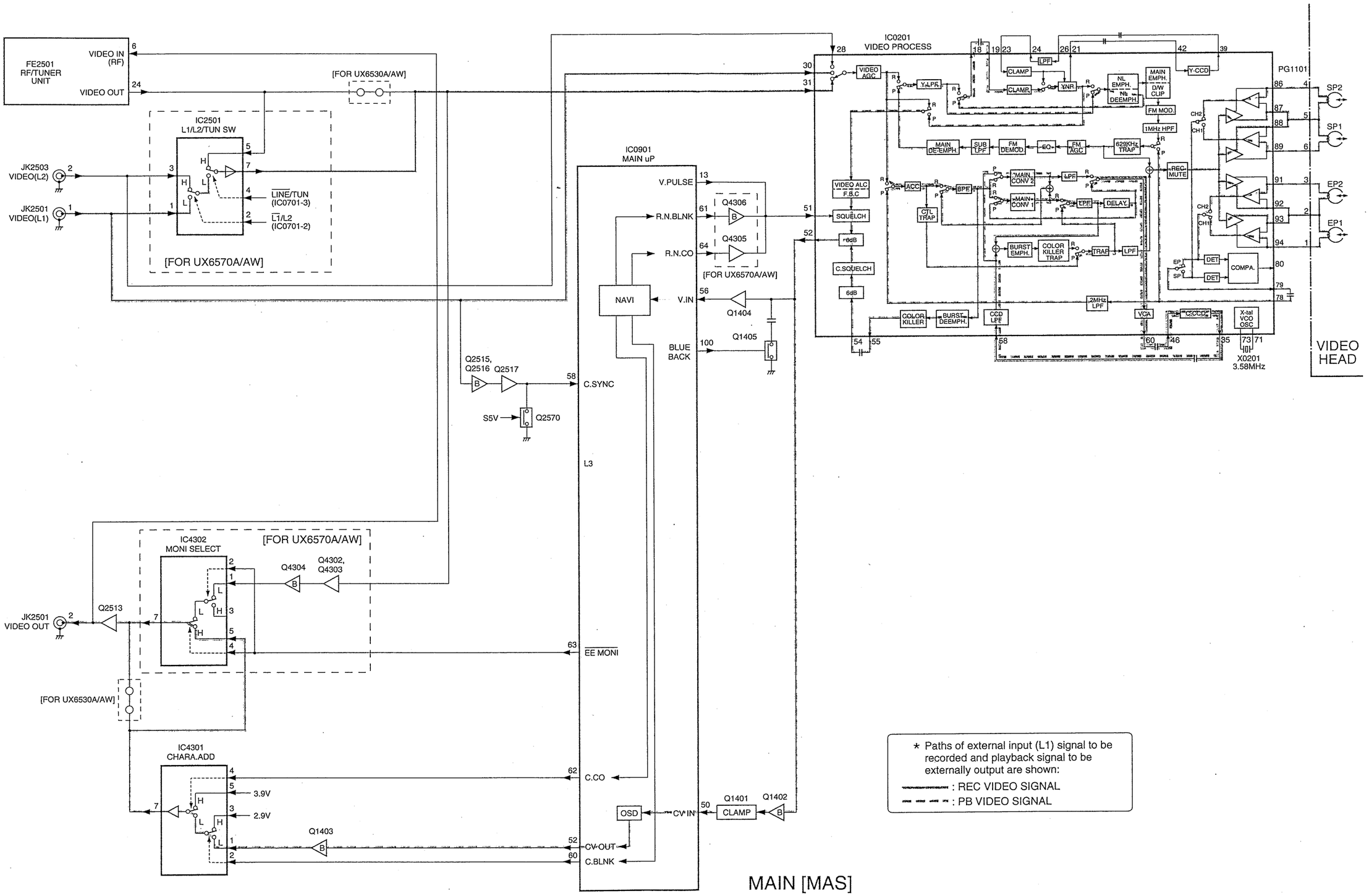
BLOCK DIAGRAMS
1. MAIN CONTROL



2. AUDIO

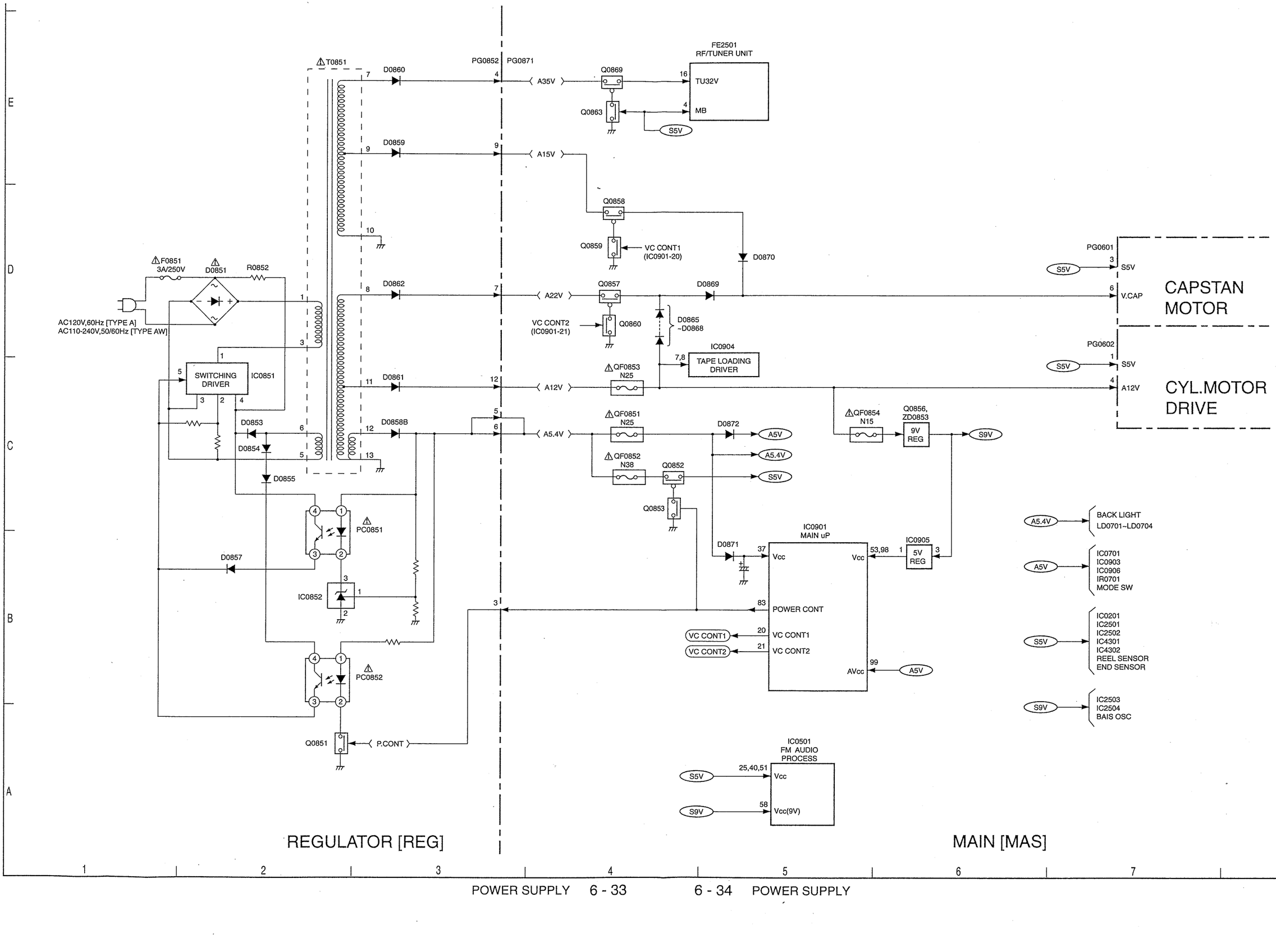

FE2501
RF/TUNER UNIT
AUDIO(RF)
SIF OUT
AUDIO (RF)
IC0501
FM AUDIO PROCESS
MPX
INPUT SELECT
OUTPUT SELECT
MODE
BPF
NO HIFI DET.
DD DET.
ENV. (AUDIO)
PNR
DE EMPH
PRE EMPH
PB TRAP LPF
NOISE CANCEL DOC
DOC NOISE CANCEL
LPF
FM DEMOD.
1.7MHz BPF
1.3MHz BPF
FM LIMIT
LIMIT
FM MOD.
CH-1 PRE AMP
CH-2 PRE AMP
S2
REC AMP
ALC
MODE DET.
D1101
HIFI REC MUTE (IC0901-30)
SW30A (IC0901-19)
DATA
CLOCK
IC0901
PG1101 CN0001
CH-1 AUDIO REC/PB HEAD
CH-2 AUDIO REC/PB HEAD
JK2501
AUDIO (R) INPUT (L1)
AUDIO (L) INPUT (L1)
AUDIO-R (L1)
AUDIO-L (L1)
JK2503
AUDIO (R) INPUT (L2)
AUDIO (L) INPUT (L2)
AUDIO-R (L2)
AUDIO-L (L2)
JK2501
AUDIO (L) OUTPUT
AUDIO (R) OUTPUT
AUDIO-L
AUDIO-R
Q2502
Q2501
Q2511
L.MUTE (IC0901-29)
ST/BIL (IC0901-7)
IC0201
VIDEO/LINEAR AUDIO PROCESS
REC AMP
EP
EQ
S4
L
H
PG0402
AUDIO (PB)
AUDIO (REC)
AUDIO REC/PB HEAD
Q0412, Q0413
Q0411
S5V
PB (IC0901-41)
Q0403,Q0405, Q0406,T0401
BIAS OSC
A.REC (IC0901-28)
D0401
AUDIO ERASE HEAD
PG0401
FULL ERASE HEAD
* Paths of external input (L1) signal to be recorded and playback signal to be externally output are shown:
: REC AUDIO SIGNAL
: PB AUDIO SIGNAL
MAIN [MAS]

3. VIDEO



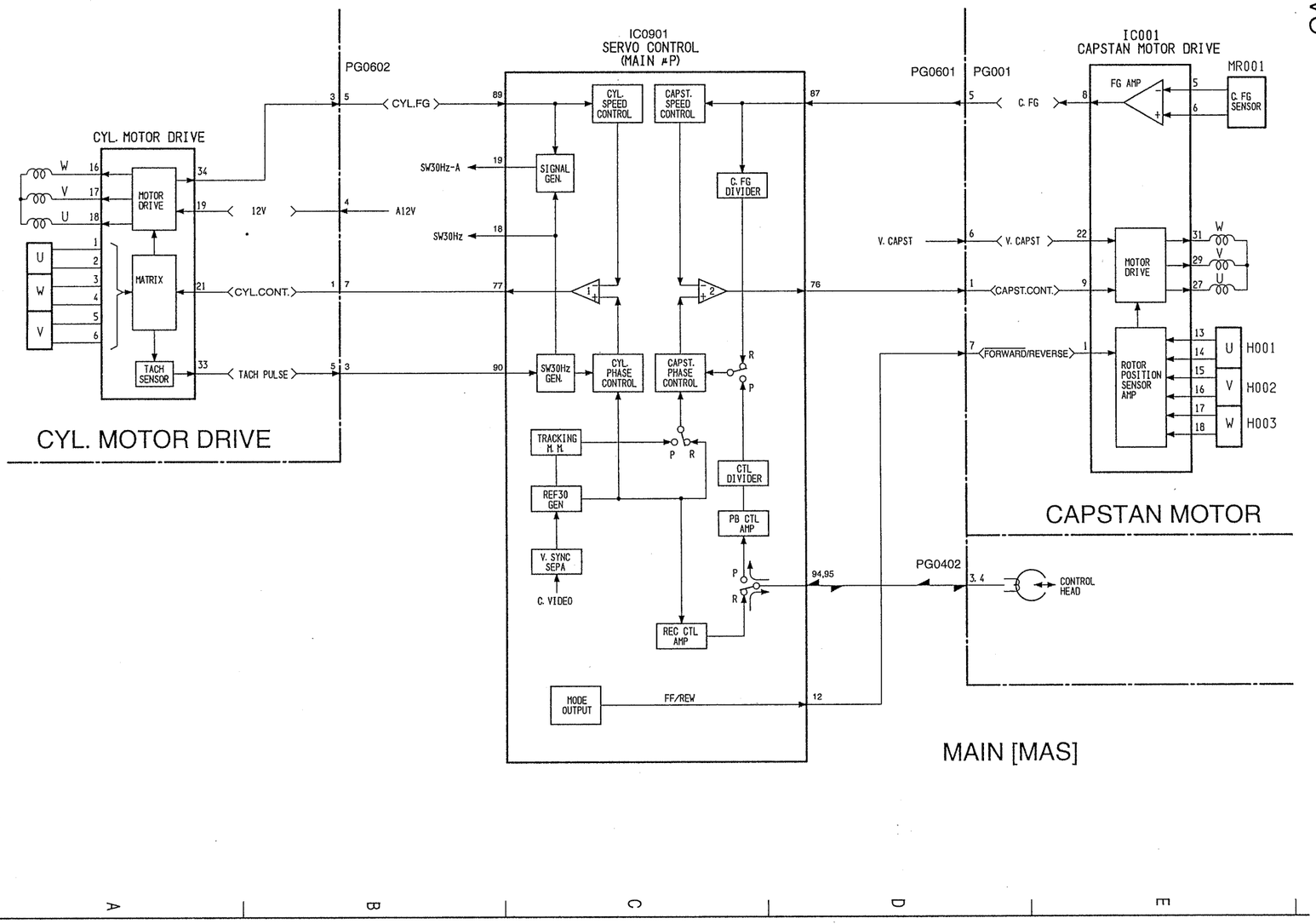
MAIN [MAS]

4. POWER SUPPLY



REGULATOR [REG]

MAIN [MAS]


CYL. MOTOR DRIVE
W
V
U
MOTOR DRIVE
MATRIX
TACH SENSOR
U
W
V
CYL. MOTOR DRIVE
PG0602
CYL.FG
12V
A12V
CYL.CONT.
TACH PULSE
IC0901
SERVO CONTROL
(MAIN μP)
CYL. SPEED CONTROL
CAPST. SPEED CONTROL
SW30Hz-A
SIGNAL GEN.
C. FG DIVIDER
SW30Hz
SW30Hz GEN.
CYL. PHASE CONTROL
CAPST. PHASE CONTROL
TRACKING M. M.
REF30 GEN
V. SYNC SEPA
C. VIDEO
CTL DIVIDER
PB CTL AMP
REC CTL AMP
MODE OUTPUT
FF/REV
PG0601
PG001
C. FG
V. CAPST
CAPST.CONT.
FORWARD/REVERSE
IC001
CAPSTAN MOTOR DRIVE
MR001
FG AMP
C. FG SENSOR
MOTOR DRIVE
ROTOR POSITION SENSOR AMP
H001
H002
H003
CAPSTAN MOTOR
PG0402
CONTROL HEAD
MAIN [MAS]

MICROPROCESSOR PIN FUNCTION TABLES

1.LCD DRIVER μP (IC0701)

Pin No.	I/O	Active Level	Abbreviation	Function
1	O	L/H	3CH(L)/4CH	RF converter 3CH/4CH switching control signal output.
2	O	L/H	L1(Lo)/L2	Line input switching. When L2 is selected: Hi; When line input other than L1 is selected: Lo
3	O	L/H	TUN(Lo)/LINE	In modes other than tuner reception: Hi
4	O	Pulse	SEGMENT (4)	
5	O	Pulse	SEGMENT (5)	VIDEO LINK LED control
6	O	Pulse	SEGMENT (6)	
7	O	Pulse	SEGMENT (7)	
8	O	Pulse	SEGMENT (8)	
9	O	Pulse	SEGMENT (9)	LCD display segment control outputs
10 - - 34	O O	Pulse Pulse	SEGMENT (10) - - SEGMENT (34)	
35	O	Pulse	SEGMENT (35)	
36	O	Pulse	COM 1	LCD display common control outputs
37	O	Pulse	COM 2	
38	O	Pulse	COM 3	
39	I	H	VDD	A5V power input
40	I	H	VLCD	LCD drive power supply
41	I	-	VLCD1	LCD drive bias
42	I	-	VLCD2	LCD drive bias
43	-	-	VSS	Ground
44	-	-	OSC	Oscillator pin
45	I	H	INH(L)	Display off input
46	I	L	CE	LOAD signal between M-μP and LCD-μP. "L" allows chip select.
47	I	Pulse	CL	Common communication lines between LCD-μP and M-μP:
48	I	Pulse	DI	DATA is transferred synchronized with the CLOCK signal.

2.MAIN μP (IC0901)

Pin No.	I/O	Active Level	Abbreviation	Function
1	O	H	BACK LIGHT	LCD backlight control signal. P.ON: Hi
2	I	A/D	SHUTTLE 1	SHUTTLE A/D input signals
3	I	A/D	SHUTTLE 2	
4	I	A/D	S.CURVE	Tuning detection signal input
5	I	A/D	FL/TAB	U4-FL mechanism loading/unloading detection, and TAB detection. Loading/unloading complete: at least 1.24 V; Transition status: less than 1.24 V; TAB present: at least 3.75 V.
6	I	A/D	KEY IN	Front key voltage data input
7	I	A/D	ST/SAP	ST/SAP detection input.
8	I	Pulse	AUDIO ENV	Hi-fi audio signal envelope input. Hi-fi envelope is input to execute ATR.
9	I	Pulse	VIDEO ENV	Video signal envelope input. Video envelope is input to execute ATR.
10	I	A/D	MODEL SW	Mode is switched by the input voltage.
11	O	H	C.LIMIT	Capstan motor current control. Current limiter ON: Hi
12	O	H	REVERSE	Capstan motor reverse drive output. Reverse: Hi
13	O	Pulse	V PULSE	Artificial V sync pulse output
14	I	Pulse	IR IN	Infrared receiving signal
15	O	-	NC	
16	O	-	NC	
17	I	-	NC	
18	O	Pulse	SW30Hz	Hi-fi head switching signal
19	O	Pulse	SW30HzA	Video head switching signal
20	O	A/D	VC CONT 1	Capstan voltages are set in PB, FF/REW and SLOW modes.
21	O	A/D	VC CONT 2	
22	I	H/L	MODE 4	
23	I	H/L	MODE 3	
24	I	H/L	MODE 2	
25	I	H/L	MODE 1	
26	O	Pulse	I2C CLK(A/V)	I2C communication clock signal for video IC
27	I/O	Pulse	I2C DATA(A/V)	I2C communication data signal for video IC
28	O	H/L	A REC	REC: Hi; REC/PB: Lo
29	O	H	LINE MUTE	Controls muting of audio output system. Muting ON: Hi
30	O	H/L	HIFI REC	Hi-fi audio recording signal. REC: Hi; REC PAUSE: Lo
31	O	H/L	LM1	
32	O	H/L	LM2	

SHUTTLE A/D input signals

	-X11	-X7	-X1	-X1/7	0	X1/7	X1	X5	X11
SHU 1	2.5/1.9	1.9/2.5	2.5	1.9	5.0	3.2	5.0	5.0/3.2	5.0/3.2
SHU 2	2.5	1.9	3.2	3.2/5.0	5.0	5.0/3.2	3.2	1.9	2.5

Capstan voltages are set in PB, FF/REW and SLOW modes.

V.CAP voltage	pin 20	pin 21	Control mode
22.0V	H	H	High-speed capstan rotation over 1880 rpm in FF/REW mode (reversal of drive direction is inhibited)
14.4V	H	L	During transition in special effects play mode
7.0V	L	L	P.OFF、X1 PB/REC in capstan motor stop
(22.0V)	L	H	Control inhibited

Pin	FL	UL	REV	RFS	FS	R/P	STP2	F/R
22	0	0	1	0	1	1	0	0
23	0	1	0	1	1	1	1	0
24	1	1	0	0	0	1	0	1
25	0	1	0	0	0	0	1	1

Pin	STOP	LOAD	UNLOAD	BRAKE
31	L	H	L	H
32	L	L	H	H

Pin No.	I/O	Active Level	Abbreviation	Function
33	-	-	ROM CORRECTION	Hi ROM correction ON (IC0908 provided) Lo ROM correction OFF (IC0908 not provided)
34	I	L	RESET(L)	When reset: Lo
35	I	Pulse	32kHz IN	Clock input/output for clock counting. 32.768 kHz is used. (Tolerance: Within ±5 ppm)
36	O	Pulse	32kHz OUT	
37	I	-	Vcc	Connected to backup power supply
38	I	Pulse	X IN	Main clock input/output. A12MHz crystal is used.
39	O	Pulse	X OUT	
40	-	-	Vss	Connected to ground
41	O	L	PB(L)	Sets the video system and linear audio head to the playback mode. PB mode: Lo; EE/REC: Hi
42	O	L	NC	
43	-	-	CLK SEL	Fixed at ground
44	I	Pulse	OSC IN2	LC or RC oscillator for generating dot clock
45	O	Pulse	OSC OUT2	LC or RC oscillator for generating dot clock
46	-	-	Vss	Connected to ground
47	-	-	LPF	For the connection of filter that generates internal sync signal.
48	I	Pulse	fsc	2fsc input for chroma signal
49	-	-	OSDVss	Ground
50	I	A/D	CV IN	Video signal input
51	I	A/D	LECHA	Character luma level input
52	O	A/D	CV OUT	Video signal output
53	I	-	OSD Vcc	Power supply of OSD circuit. Connected to Vcc 5V.
54	O	-	HLF	For the connection of LPF for slicer
55	O	-	V HOLD	For the connection of capacitor for slicer
56	I	A/D	V IN	Video signal input
57	-	-	Vss	Ground
58	I	Pulse	C.SYNC	C.SYNC input during power off mode for video link
59	O	H/L	EP FIL(SP)	Video frequency response switching signal. LP/EP play: Hi; SP: Lo
60	O	Pulse	C.BLANK	Blank signal for adding OSD (Super inpose)
61	O	Pulse	R.N.BLANK	Blank signal for adding NAVI data
62	O	Pulse	C.CO	Signal for adding OSD (Super inpose)
63	O	L	EE.MONI(L)	EE monitor switching signal. EE monitor: Lo
64	O		R.N.CO	Output for adding NAVI data
65	O	Pulse	LCD DATA OUT	LCD data output
66	O	Pulse	LCD CE	LCD driver chip selection
67	O	Pulse	LCD CLOCK	LCD clock output
68	-	-	NC	Unused
69	-	-	NC	
70	-	-	NC	
71	O	Pulse	I2CBUS CLK	I2C communication clock signal
72	I/O	Pulse	I2CBUS DATA	I2C communication data signal
73	O	-	NC	
74	O	Pulse	DEFETE	Tuning pulse signal output for -1.25M,-2M, +0.75, +2MHz frequency.
75	O	H	TV/VCR	RF converter (VCR/TV switching) control signal output. TV: Lo, VCR: Hi
76	O	A/D	CAPSTAN PWM	Capstan motor control PWM output
77	O	A/D	DRUM PWM	Cylinder motor control PWM output
78	I	-	NC	
79	I	Pulse	S.REEL	Supply reel rotation detection (4 pulses/revolution)
80	I	Pulse	T.REEL	Take-up reel rotation detection (8 pulses/revolution)
81	I	L	P.STOP	Power failure detection. When detected: Lo

Pin No.	I/O	Active Level	Abbreviation	Functin
82	O	H/L	CTL CONT.	Cylinder control signal. FF/REW mode: Lo. CTL amp frequency response switching
83	O	H/L	POWER CONT	Power control. S power supply on/off switching control. P.ON: Hi; P.OFF: Lo
84	I	L	ESS	End sensor inputs. 1. Mechanism cassette loading detection (with cassette: either ESS or EST is Hi; without cassette: both ESS and EST are Lo) 2. Tape start/end detection (tape start: EST "Lo",ESS "Hi"; tape end: EST and ESS "Lo")
86	I	L	EST	
85	I	-	NC	
87	I	Pulse	CFG	Capstan FG input
88	-	-	AMPVss	Analog amp ground
89	I	Pulse	DFG	Cylinder FG input
90	I	Pulse	DPG	Cylinder tach input
91	O	A/D	AMP Vref OUT	Analog amp reference voltage output
92	I	A/D	AMP Vref IN	Analog amp reference voltage input
93	-	-	NC	
94	I/O	Pulse	CTL -	CTL pulse input/output
95	I/O	Pulse	CTL +	CTL pulse input/output
96	O	-	AMPC	Ground
97	O	Pulse	CTL AMP OUT	CTL amp output
98	I	-	AMP Vcc	Analog amp power supply (S5V)
99	I	-	AVcc	AD converter power supply (A5V)
100	O	H	GRAY BACK	Gray background: Hi site

HITACHI

VT-UX6570A,AW/UX6530A,AW

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VT-UX6570A,AW
VT-UX6530A,AW

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